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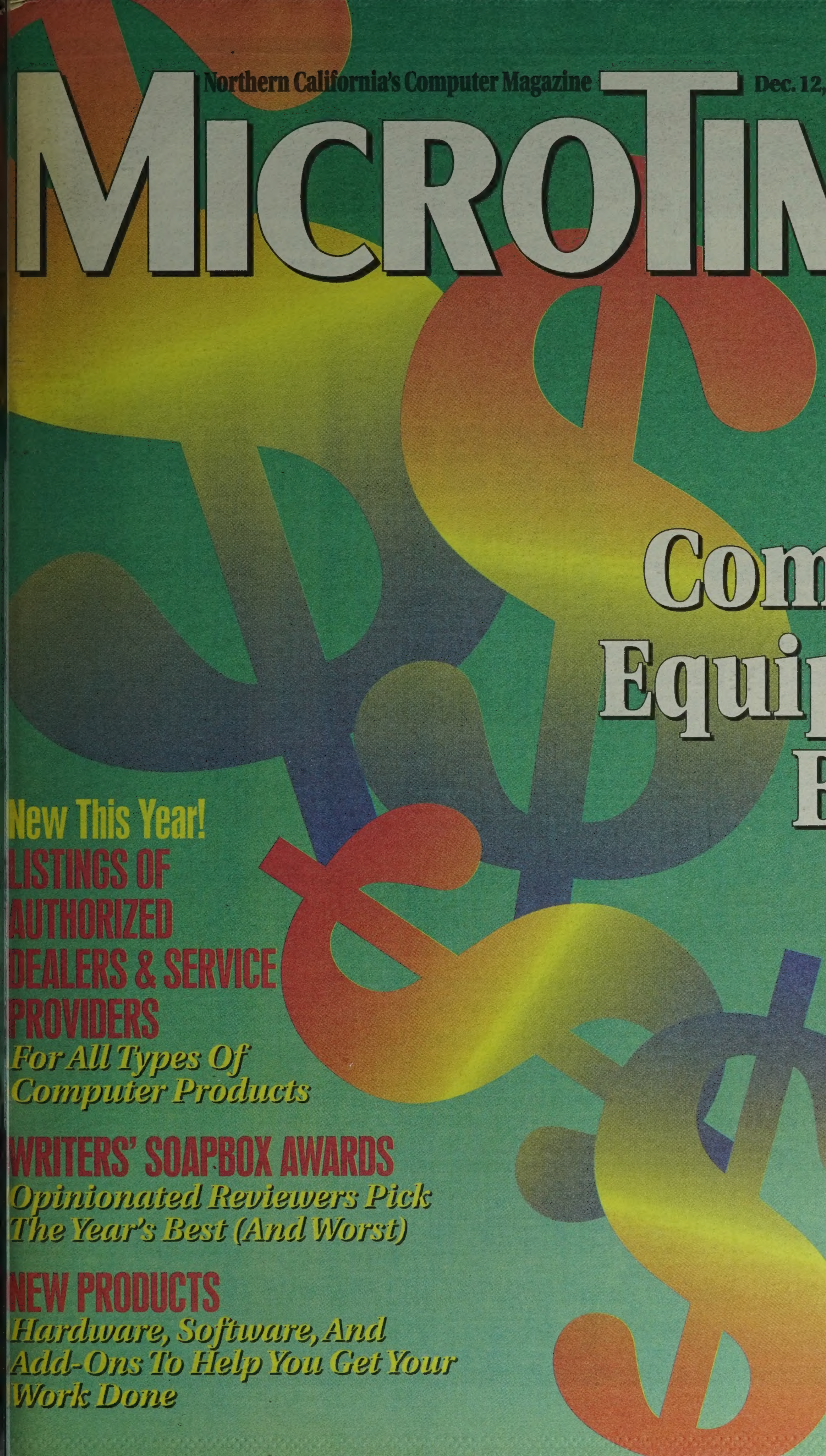

'92 Computer Equipment Buyers Guide

New This Year!

LISTINGS OF AUTHORIZED DEALERS & SERVICE PROVIDERS

For All Types Of Computer Products

WRITERS' SOAPBOX AWARDS

Opinionated Reviewers Pick The Year's Best (And Worst)

NEW PRODUCTS

Hardware, Software, And Add-Ons To Help You Get Your Work Done

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EMM/386 Utility Software
Serial/Parallel Ports
Clock/Calendar
IDE Hard/Floppy Disk Controller
Enhanced Keyboard
#1593112

Monitor not included

$1295

HP Vectra 25MHz 386

25MHz 80386 Processor
2MB RAM Expandable To 16MB
7 I/O Slots • 3 Mass Storage Shelves
One Serial/One Parallel
One Mouse Port
Monitor Not Included
#1567645

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33MHz 32-Bit i486
Based Processor with
Integrated Coprocessor
EISA Based, 32-Bit I/O Bus:
Fully Compatible with OS/2, MS DOS 4.01,
SCO Xenix System V and SCO Unix System V 386
8 EISA Accessory Slots:
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Monitor Not Included #1567601

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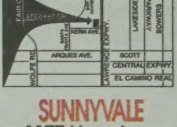

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XL-SERIES Print Server

PC MAGAZINE

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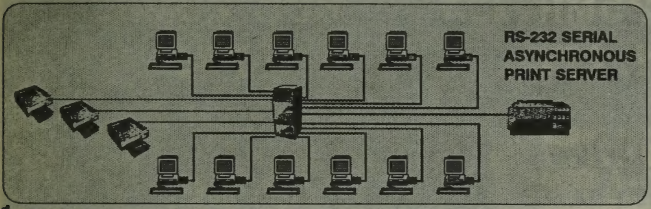
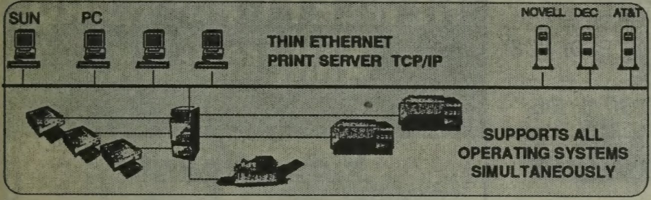


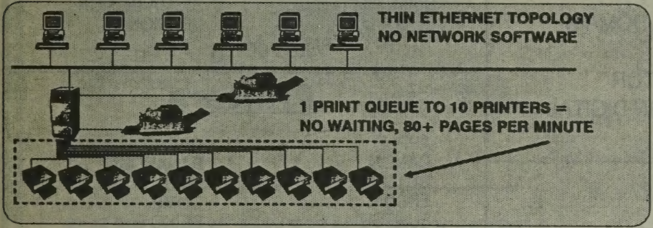
1. The XL-Series as the hub of a printer sharing network. With 10 to 18 ports, two parallel connectors and RJ12 twisted pair connectors for the remainder, this configuration allows you to create a stand-alone network and add stations as required.

XL-100S (10 port): Reg. $1,295, now **$695**, XL-110S (18 port): Reg. $1,595, now **$995**



2. The XL-Series as an Ethernet TCP/IP print server. Connect the unit as one of the nodes on your network and link-up to any one of 10 to 18 printers.

XL-100E-P (10 port, Ethernet, BNC connector, TCP/IP): Reg. $2,495, now **$1,595**


THIN ETHERNET TOPOLOGY
NO NETWORK SOFTWARE
1 PRINT QUEUE TO 10 PRINTERS =
NO WAITING, 80+ PAGES PER MINUTE

3. The XL-Series as a print server or peripheral sharing hub - using thin Etherent cables, but without network software. Ten printers in a class yield 80 pages per minute output - no queues and no waiting.

XL-100E-S (10 port, BNC connector): Reg. $1,995, now **$1,295**

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CORPORATE USERS.

The XL-Series provides a unique printer sharing solution - the same product family can be used in departmental level applications and in network environments. Unlike printer specific solutions with limited port options, the XL-Series can be used with all printers and plotters, with up to 18 ports in a single unit. Contact IMC DATA MANAGER today for all pertinent details: **800-537-5999.**

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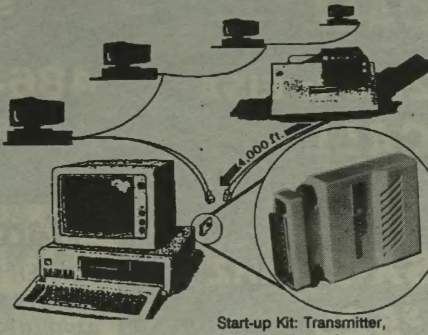
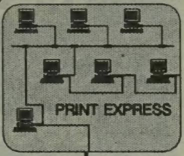


- **No special software - use with current applications (Word, Windows, Ventura, dBASE, 1-2-3, etc.)**
- **ESCAPE E and CONTROL D**
- **Star and Bus configurations.**



Transmitter (1 per computer),
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Start-up Kit: Transmitter, Receiver, Power Supply and 50ft twisted pair cable.
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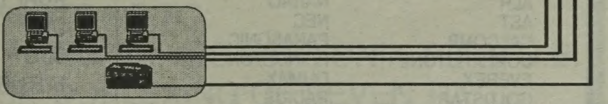

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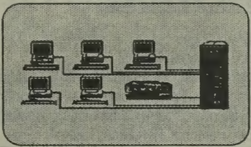

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4x4 - 8 PORTS
SERIAL AND PARALLEL

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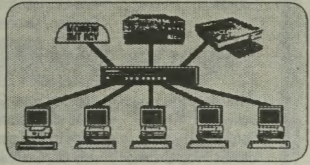
- **Mix Serial and Parallel ports**
- **Every port can be an input or output**



Model No.	Input Ports	Output Ports	Total Ports	Sugg. Retail	Sale Price
DM60+S	5 Serial	1 Serial	6	$349	**$275**
DM60+P	5 Par.	1 Par.	6	$695	**$495**
DM44	4 Ser/4 Par	4 Ser/4 Par	8	$695	**$495**
DM45	6 Ser/2 Par	6 Ser/2 Par	8	$695	**$495**
DM46	8 Serial	8 Serial	8	$695	**$495**

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Communications	Add-On, Remote, Service, Standard, Terminal Emulation, Tutorial
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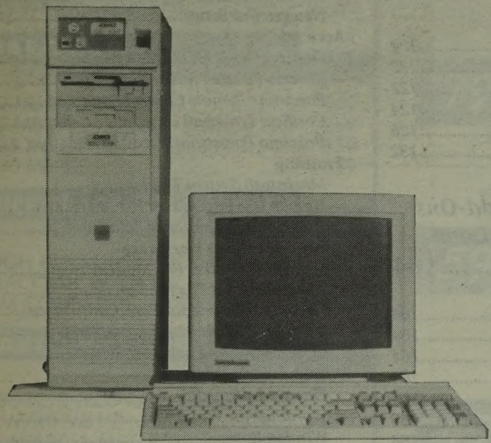

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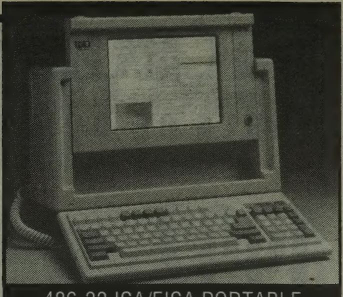

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By Mike Markowitz

Just in time for your holiday shopping, Markowitz picks the best computer games of 1991.

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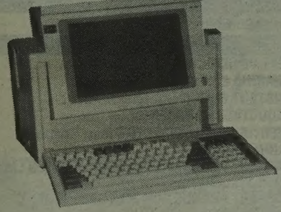

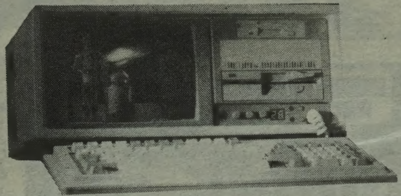

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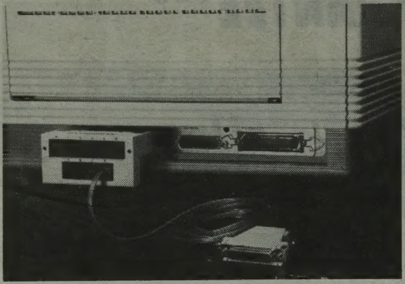
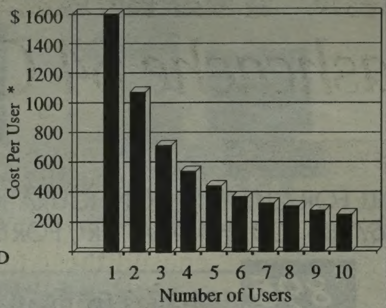


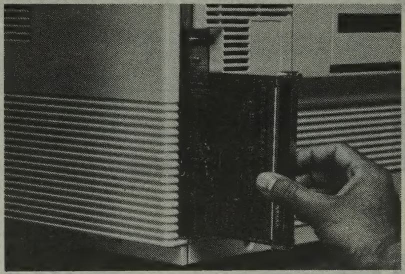
JetCard

- Up to 10 users share HP LaserJet III, IIID, II, IID
- Plugs into "Optional I/O" slot
- 256 KB buffer upgradeable to 1 MB

SHARING MAKES SENSE :
See for yourself, why printer sharing makes sense to thousands of our world wide customers.

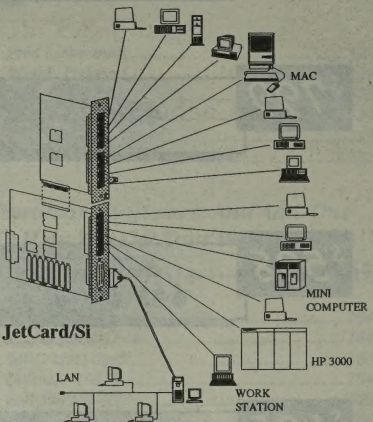


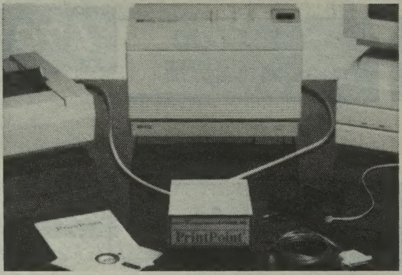
* Cost based on HP LaserJet III at $1,600.00 plus cost of JetCard and accessories.



JetCard/Si

- Up to 15 users share HP LaserJet IIISi
- Plugs into modular I/O (MIO) slot
- 1 MB buffer upgradeable to 4 MB





PrintPoint

- Up to 10 users share any 2 parallel printers
- Compact, stand alone desk top models
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"Excellink's PrintPoint ... offers what is arguably the simplest possible approach to printer sharing. You won't find a complicated set up procedure.... You will find spartan simplicity and generally top flight test scores."

PC MAGAZINE - **M. David Stone, *Editor***
PC Magazine, April 30, 1991

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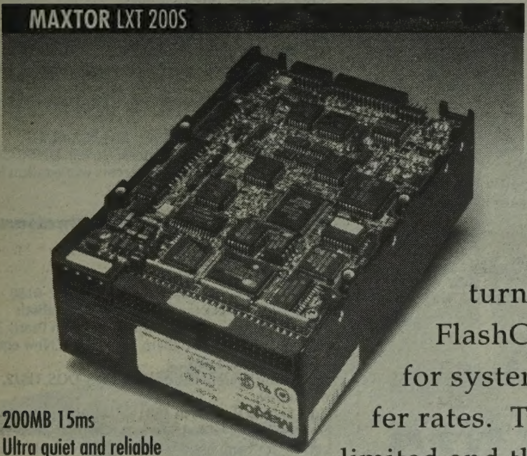
with Flashcache 64 Controller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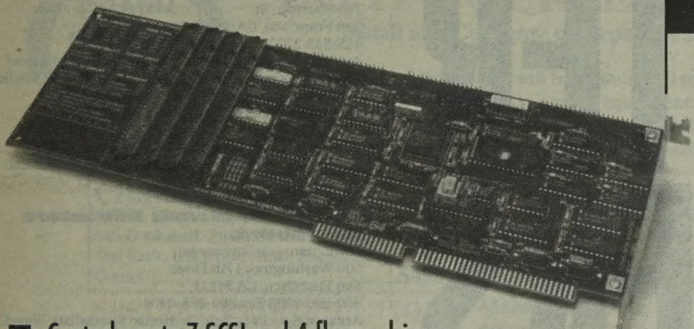

- Controls up to 7 SCSI and 4 floppy drives
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MicroTimes Guide to 1992 Northern California COMPUTER RESELLERS

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If you've decided that your office needs a LAN upgrade, or you want to take the plunge into multimedia, or you've got to have some custom dBASE work on your UNIX system, or you need your Macintosh to talk to a mainframe in Cleveland, you may well waste a lot of time calling around to dealers whose specialty turns out to be something completely different.

This Reseller Guide can save you some of this aggravation. We list dealers in their respective geographical areas, so you can immediately figure out who's in a location convenient to you. The dealers, VARs, and consultants describe their specialties and tell you who to call. Also, this year we've included a new list of vendor-authorized service providers, so if you're looking for support or training for a particular product, you can choose a source with confidence.

SAN FRANCISCO

Adolph Gasser, Inc

Store manager: Don Shearer
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San Francisco, CA 94110
415-495-3852 Fax:415-543-2615

Areas of Specialty (and In-House Specialist): Computer Imaging (Don Shearer); Image Output (Don Shearer); Image Capture (video/scan) (Don Shearer).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh
Top-Selling Brands in 1991: Targa, Everex, Kodak
Special Value-Added Services: Computer imaging seminars, turnkey imaging system installations from image capture to output and even beyond photographics processing.

Advanced Computer Systems

Store manager: Shawn
1231 Market St, San Franciscan Hotel
San Francisco, CA 94103
415-552-2902 Fax:415-552-2904

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Operating Systems Supported: MS-DOS, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Mylex, Ami, HP
Special Value-Added Services: Novell, UNIX, CAD workstations. The best file servers workstation in the 486 world.

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Store manager: Sam Traurman
PO Box 410565
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415-882-4006/800-652-1532 Fax:415-882-6180

Areas of Specialty (and In-House Specialist): Purchase/sale of used computers (Jason Pratt); Surplus inventory liquidation (Sam Traurman); New equipment sale (Sam Traurman).
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: Macintosh, Compaq, AST
Special Value-Added Services: We offer brokerage service for business dealers and individuals to facilitate purchase and sale of new, used, and surplus micros, workstations, mini computers, and peripherals.

CBA

Store manager: John Alkire
760 Harrison St
San Francisco, CA 94107
415-543-2227 Fax:415-543-3739

Areas of Specialty (and In-House Specialist): Hotel (Raja Magasweran); Restaurants (Toni Appel); Medical (John Alkire).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: AST, Novell, MIPS
Special Value-Added Services: Training on-site and classroom.

Certified Network Educators (CompuNet)

Store manager: Sammy Jon
500 Washington, 17th Floor
San Francisco, CA 94111
800-526-7883 Fax:800-255-0404

Areas of Specialty (and In-House Specialist): Novell Education (certified) (Sammy Jon).
Special Value-Added Services: We are a certified Novell education center offering classes for those who desire their certified network engineer designation or who want instruction on Novell systems.

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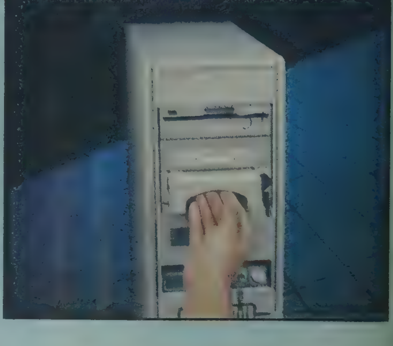

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333 Cobalt Wy, #107
Sunnyvale, CA 94086
408-245-2144 Fax:408-245-0801
Areas of Specialty (and In-House Specialist): PC Systems (Paul Chang); Network (David Lucero)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: ADDAX-33, ADDAX-325SX, ADDAX 433
Special Value-Added Services: 1-year warranty, 30-day money-back guarantee, leasing, training, on-site installation.

Add on America
Store manager: Thomas Beinar
433 N. Mathilda
Sunnyvale, CA 94086
408-746-1590 Fax:408-292-7771
Areas of Specialty (and In-House Specialist): Memory Upgrades (Debra Spitzer); Fax on Demand (Tom Beinar)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Robofax, Macronix, Toshiba
Special Value-Added Services: 30-day money-back, all memory products are warranted for 5 years.

Advanced Computer Systems
Store manager: Salim A Mastan
681 Grape Ave
Sunnyvale, CA 94087
408-732-6200 Fax:408-749-9449
Areas of Specialty (and In-House Specialist): Novell Network (Ahmed); UNIX (Obaid); CAD.
Operating Systems Supported: MS-DOS, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Mylex, Ami, HP
Special Value-Added Services: Novell, UNIX, CAD workstations. The best file servers workstation in the 486 world.

Amica Inc
Store manager: John H. Geng
4182 Coulombe Dr
Palo Alto, CA 94306
415-493-1867 Fax: 415-493-1867
Areas of Specialty (and In-House Specialist): Motherboards & Add-on Board (John Geng); IBM PC Compatible (Amy Geng); Computer Software (Julie Geng).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Amica
Special Value-Added Services: Power supplies, offshore sourcing on motherboards, add-on boards, cases, and computer peripherals.

Aroma Tech Inc
Store manager: Francis Chien
470 Lakeside Dr, Ste F
Sunnyvale, CA 94086
408-736-4355 Fax:408-736-4356
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Orchid, Diamond, Conner

Athena Solution, Inc
Store manager: Winston Xia
100 W. El Camino Real
Mountain View, CA 94040
415-962-8686 Fax:415-969-3361
Areas of Specialty (and In-House Specialist): LAN (Joe); PC Systems (Frank)
Operating Systems Supported: MS-DOS

ATP Electronics
Store manager: Tim Hsieh
935 Benecia Ave
Sunnyvale, CA 94086
408-732-7093 Fax:408-732-9672
Areas of Specialty (and In-House Specialist): Memory Upgrade; Laptop/Notebook Accessories; Computer Connectors.
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: HP, Panasonic, Toshiba
Special Value-Added Services: Service, support, warranties.

Bay Area Computer Exchange, Inc
Store manager: Chris Talbot
1778 El Camino Real
San Bruno, CA 94066
415-952-4868 Fax:415-952-4867
Areas of Specialty (and In-House Specialist): Novell Netware (Jody Lau).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Roland, Legend, Okidata
Special Value-Added Services: Warranty—24 hrs. Parts and labor (most systems) full service and support on all systems we sell, trade-in/trade-up service, upgrade service.

Belmont System
Store manager: Andy Lin
1555 Industrial Rd
San Carlos, CA 94070
415-598-9058 Fax:415-598-0186
Areas of Specialty (and In-House Specialist): Sales (best price) (Andy Lin); Technician (Ken Tan)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: 486-33 MHz, 386-33 MHz, 64K Cache System
Special Value-Added Services: Best price, strong technical support.

Beta Ninety Computer
Store manager: Joseph Lei
133 Southwood Center
So. San Francisco, CA 94080
415-875-6682 Fax:415-875-6683
Areas of Specialty (and In-House Specialist): Microsoft MS-DOS 5; AutoCAD; Windows.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Conner, Supertron Super VGA Monitor, Zoltrix
Special Value-Added Services: 100% Customer satisfaction guaranteed.

California Computer Show & Sale
Store manager: Joe Milligan
330 Primrose Rd, Ste 303
Burlingame, CA 94010
415-340-9114 Fax:415-344-0947
Areas of Specialty (and In-House Specialist): Computer Trade Shows
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: IBM Compatible, Seagate, Conner
Special Value-Added Services: The widest selection of merchandise at the lowest possible prices.

Comet MicroSystem
Store manager: Jimmy Liu
1301 Grandview Dr
So. San Francisco, CA 94080
415-615-9123 Fax:415-615-0287
Areas of Specialty (and In-House Specialist): MicroComputer sales & service (George Chu); Network Install, upgrade & service (George Chu); Computer hardware & software cons.
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Sony, Maxtor, NEC
Special Value-Added Services: We provide on-site service, service contract and extended warranty available.

Computer HQ
Store manager: Ernest Brauch
174 University Ave
Palo Alto, CA 94301
800-874-6777/415-326-3100 Fax:415-326-3256
Areas of Specialty (and In-House Specialist): Imaging (multimedia) (Ernest); Custom Built Configuration (Ernest); Networking (Don).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Stargate (own brand)
Special Value-Added Services: 5-year parts/ 2-year labor, incredible hours: 8 am–10 pm 7 days a week. Close affiliation w/Stanford. 4 years in business.

Computerland of Serramonte
Store manager: Ramiro Moran
4941 Junipero Serra Blvd
Colma, CA 94014
415-994-1400 Fax:415-994-1049
Areas of Specialty (and In-House Specialist): Macintosh-Apple products (Romiro Moran); IBM-DOS products (Tom Pratt); Network Applications (Dave Engelhard).
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: Apple, IBM, Compaq
Special Value-Added Services: We offer carry-in & on-site service, network training & installation, and support warranty repairs on Apple, Compaq, IBM, HP, etc.

Computer Literacy Bookshops, Inc
520 Lawrence Expwy
Sunnyvale, CA 94086
408-730-9955
Areas of Specialty (and In-House Specialist): Electronics/Computers Books
Top-Selling Brands in 1991: Prentice-Hall, Addison-

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1. My job function/title (select one only):
☐ A. President/Vice President
☐ B. Administrative Management
☐ C. Financial Management
☐ D. MIS/DP Management
☐ E. Engineering/Technical Management
☐ F. Sales & Marketing Management
☐ G. Research & Development
☐ H. Applications Programmer/Analyst
☐ J. Systems Programmer

2. Primary business of my organization (select one only):
☐ K. Financial Services
☐ L. Utilities/Transportation
☐ M. Government/Military
☐ N. Engineering/Science/R&D
☐ O. Manufacturing (non-computer)
☐ P. Education
☐ Q. Medical & Health Services
☐ R. Consulting Services
☐ S. Wholesale/Retail Trade
☐ T. Communications
☐ U. VAR/Dealer/Distributor
☐ V. Software Developer
☐ W. Independent Computer Consultant
☐ X. Systems Integrator
☐ Y. Manufacturer of Computers/Systems/Peripherals
☐ Z. Other Business ____________ (please specify)

3. Number of employees in my organization (all locations):
☐ AA. 1 - 50
☐ BB. 51 - 500
☐ CC. 501 - 5000
☐ DD. Over 5000

4. Number of years I have used UNIX:
☐ EE. None
☐ FF. 1 to 5 years
☐ GG. Over 5 years

5. Types of computer systems I currently use:
☐ HH. Mainframe computers
☐ JJ. Minicomputers
☐ KK. Small business computers
☐ LL. Microcomputers, including PCs

6. I specify or influence the purchase of (check all that apply):
☐ MM. Mainframes, Superminis
☐ NN. Minicomputers/ Small Business Computers
☐ OO. Microcomputers/Desktops
☐ PP. Software (Operating System)
☐ QQ. Software (Applications)
☐ RR. Communications Systems
☐ SS. Office Automation Systems
☐ TT. LAN Equipment/Systems/Services

7. My company's total gross sales or revenues (in millions):
☐ UU. Under $1 million
☐ VV. $1-$24
☐ WW. $25-$99
☐ XX. $100-$249
☐ YY. $250-$499
☐ ZZ. $500 and over

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Landmark 30 MHz, Basic System 1 MB	**386-25 MHz**	**$489**
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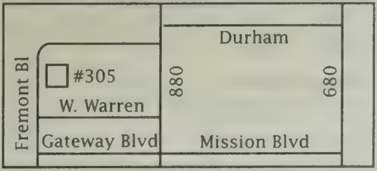

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415-573-9675 Fax:415-573-5317
Areas of Specialty (and In-House Specialist): dBase IV (Ralph Sharp); WordPerfect (Gwen Turnbo); Paradox (Jerry Schulz).
Operating Systems Supported: MS-DOS
Special Value-Added Services: Computer resource center offers professional classroom training on popular business software. Please call for catalog of classes.

Computer Selection/Connecting Point
Store manager: Simon Chow
1202 Apollo Way
Sunnyvale, CA 94086
408-746-2288 Fax:408-746-2208
Areas of Specialty (and In-House Specialist): High End Desktop Publishing; Multivendor Networking
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Apple, AST, Hewlett-Packard
Special Value-Added Services: We offer service repair for all products we sell. Technical support is available on fee basis. Fortune 100 companies expertise!

Computer Spectrum
Store manager: Nancy Doss
1243 Howard Ave
Burlingame, CA 94010
415-347-4576 Fax:415-347-3840
Areas of Specialty (and In-House Specialist): Amiga Video (Robert Luster); Multimedia (Nancy Doss); P.O.S. Accounting (Gary Doss).
Operating Systems Supported: MS-DOS, Amiga, UNIX/XENIX
Top-Selling Brands in 1991: Amiga, Fujitsu, Microsoft
Special Value-Added Services: On site delivery and setup available for Amiga video systems. Multimedia production services are also available.

The Computer Store
Store manager: Simon Ong
67 E. Evelyn Ave
Mountain View, CA 94041
415-968-3466 Fax:415-968-2618
Areas of Specialty (and In-House Specialist): DOS, XENIX, Novell (Jim Chang); DOS, Novell (Henrik Ong); DOS, Novell (Alan Lin).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Optima systems, SLK systems, Panasonic
Special Value-Added Services: Computer repair, Novell Network setup & training, Xenix Base Multiuser Accounting systems, 1-year warranty parts and labor, 30-day compatibility money-back guarantee.

Computer Tyme
Store manager: Roger Johnson
265 Sobrante Way, Ste II
Sunnyvale, CA 94086
408-732-2186 Fax:408-732-2352
Areas of Specialty (and In-House Specialist): MS-DOS (Gary Araki); Novell Network (Gary Araki); dBase (Gary Araki).
Operating Systems Supported: MS-DOS
Special Value-Added Services: On-site service, programming modifications, support for software and hardware, full parts and labor warranties, defective return for repair/replacement. Service and support in Northern California and Nevada.

CompuTown
Store manager: Tania Halapota
2444-A Old Middlefield Way
Mountain View, CA 94043
415-962-8696
Areas of Specialty (and In-House Specialist): AutoCAD (Mohammad Waseem); SUN (Imram Bawani); Novell/Netware (Rashid Naseem).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, SUN.
Top-Selling Brands in 1991: AST, Zenith, Sharp
Special Value-Added Services: On-site service. Complete factory authorized repairs, extended warranty.

Connecting Point Laptop Center
Store manager: Dennis Donohue
490 California Ave, Ste 100
Palo Alto, CA 94306
415-325-8509 Fax:415-323-8308
Areas of Specialty (and In-House Specialist): Portable Computers (Henry Weinstein); Distributed Data Capture (Dennis Donohue); Sales Automation (John Lynch).
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Toshiba, NEC, Sharp
Special Value-Added Services: We are experts in portable computing, including handhelds, notebooks, and laptops as well as associated connectivity solutions.

Corporate Systems Center
Store manager: Christine Bodo
730 N. Pastoria Ave
Sunnyvale, CA 94086
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Areas of Specialty (and In-House Specialist): Hard drives—large capacity SCSI/ESDI (Jamal Kieka); Hard drive repair—Maxtor drives (Mike Gillen)
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Maxtor, Seagate, Fujitsu
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Custom Database Solutions
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2 Meadowsweet Ln
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Areas of Specialty (and In-House Specialist): Database Solutions; Database Support; Database Training.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: All DOS-based DBMS
Special Value-Added Services: CDS offers full-service database, file server, and client server application design, implementation, and support for all DOS-based DBMS.

Davis Technology
Store manager: Matt Davis
309 E. San Bruno Ave
San Bruno, CA 94066
415-589-6007
Areas of Specialty (and In-House Specialist): Computer Repair (Matt Davis).
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: IBM, NEC, Samsung
Special Value-Added Services: Complete technical support on any problems, IBM-compatible related.

Domino Computer Self-Service Centers—Millbrae
Store manager: David
231 Millbrae, Ste 113
Millbrae, CA 94030
415-692-6326 Fax:415-692-6326
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Redwood City
Store manager: David
1111 Oddstad Dr
Redwood City, CA 94063
415-367-9322 Fax:415-367-9321
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Sunnyvale
Store manager: Foo
1214 Apollo Wy, Ste 404-2
Sunnyvale, CA 94086
408-749-8114 Fax:408-749-8115
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Exodus International Dist
Store manager: David Mark
1155 Broadway Ave, Ste 200
Redwood City, CA 94063
415-306-0790 Fax:415-368-5711
Areas of Specialty (and In-House Specialist): Disk Duplication (Julie); Fax Paper (David)
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Store manager: Patrick Yuen
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Top-Selling Brands in 1991: AT&T, Microsoft, Panasonic
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Fry's Electronics, Inc
Store manager: Dean Walker/Scott Pugh
340 Portage Ave
Palo Alto, CA 94306
415-496-6100 Fax:415-496-6060
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
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Special Value-Added Services: 7-day-a-week service. Novell network installation, extended service plan including on-site service and loaner program.

Fry's Electronics, Inc
Store manager: Mike Queenan/Shariar Saraj
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Sunnyvale, CA 94086
408-733-1770 Fax:408-735-6800
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Hewlett-Packard, IBM, Panasonic
Special Value-Added Services: 7-day-a-week service. Novell network installation, extended service plan including on-site service and loaner program.

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386SX 20MHz main board w/ cpu	$185
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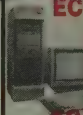

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- 1.2MB and 1.44MB floppy drives
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- 101 Enhanced keyboard
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- 1.2MB and 1.44MB floppy drive
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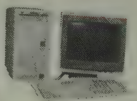

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- 1.2MB or 1.44MB floppy drive
- 1:1 interleaved HD/FD controller
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- Clock/calendar w/battery backup
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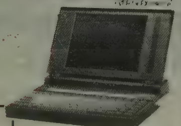

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SCSI 1:1 HD/FD cont	159
ESDI 1:1 HD/FD cont ultrastore w/32K	179
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486-33/128K	289	765
486-33/256K	375	865

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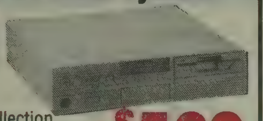

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20" Screen

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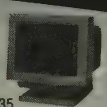

- Mitsubishi 20" VGA+ analog monitor, MIT-6935
- .31 mm dot pitch
- 1280x1024 maximum resolution (non-interlaced)
- 30-64KHz horizontal scanning frequency, 50-90Hz vertical
- Non-glare screen
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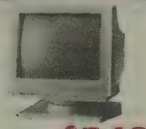

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- VGA, Super VGA, & 8514/A compatibility

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CM-1440 Interlaced $475

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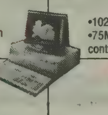

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Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.

Haltek Electronics
Store manager: Kirk Howell
1062 Linda Vista Ave
Mountain View, CA 94043
408-744-133/415-969-0510 Fax:415-964-6973
Areas of Specialty (and In-House Specialist): Retail sales, P's & electronics (Russell Rocket); Wholesale PCs & peripherals (Daniel Morgan); BBS 41- 969-6321 (Michael Goodnight).
Operating Systems Supported: MS-DOS
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Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, DR DOS.
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Hi-Tech USA
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981B Industrial Rd
San Carlos, CA 94070
415-508-8688 Fax: 415-508-0383
Areas of Specialty (and In-House Specialist): 486 Systems (Lu); 386 Systems (Jessie); 286 Systems (Joe).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 486, 386, 286
Special Value-Added Services: 15-day money-back guarantee, 1-year parts, 2-year labor warranty. Excellent tech support.

HQ Computers, Inc
Store manager: Pei Tsai
740 N Mary Ave
Sunnyvale, CA 94086
408-245-5836 Fax:408-245-3108
Areas of Specialty (and In-House Specialist): Novell Network (Pei Tsai); MS DOS, OS/2 (Tek); Windows 3.0 (Bruce Tsai).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: HZQ, NEC, Panasonic
Special Value-Added Services: On-site service, 1-year parts, 2-year labor warranty, 30-day refund warranty.

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1123 Tasman Dr
Sunnyvale, CA 94089
408-745-0943 Fax:408-745-1082
Areas of Specialty (and In-House Specialist): Business Applications(Julian Roberts); System Design/Installation (Roberts/Swartwood); Programming (Bill Swartwood).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: HP, JCSI Clone, Intuit
Special Value-Added Services: Specialist in Business Accounting and Mangement; over thirty years experience in design, programming, installation. Enrolled agent tax specialist.

Lini Computers, Inc
Store manager: Adam Yip
40 Park Plaza Dr
Daly City, CA 94015
415-944-2222 Fax:415-994-2223
Areas of Specialty (and In-House Specialist): Novell Networking; Windows Programming; Desktop Publishing.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Maxtor, Trident, Teac
Special Value-Added Services: Hardware, software, technical support, 1-year parts warranty, 2-year labor warranty.

MicroMation Technology
Store manager: Paul Wong
1030-F E. Duane Ave
Sunnyvale, CA 94086
408-739-2999 Fax:408-739-2996
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 486-33, 386-33, 486-25

MicroTech Computers
Store manager: Aaron Tsui
440 San Mateo Ave, Ste S-3
San Bruno, CA 94066
415-588-0317 Fax:415-588-2065
Areas of Specialty (and In-House Specialist): Netware Installation (Alain Lau); LANtastic & PC services (Aaron Tsui); Desktop Publishing (Hon Tau).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Novell, LANtastic, HP
Special Value-Added Services: Small-business solutions including LAN solutions, moving sign displays, P.O.S. (retail), Desktop Publishing, customized health package (medical-dental-chiropractic), and Voice-Based Ventures.

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Store manager: Emmett Smith
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Sunnyvale, CA 94086
800-733-9188 Fax:408-730-5933
Areas of Specialty (and In-House Specialist): IBM Compatibles X-Terminals (Emmett Smith).
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Top-Selling Brands in 1991: Our own PC
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Areas of Specialty (and In-House Specialist): Mac Hard Drives (Rick V); IBM Hard Drives.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, SUN.
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Sunnyvale, CA 94086
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Areas of Specialty (and In-House Specialist): Network Design/Installation/Testing; UNIX-PC Network, TCP/IP, X Windows; FIS Trouble Shooting, upgrade.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
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Special Value-Added Services: Provide turnkey solution for all your networking needs. System design, installation, upgrading, testing, trouble shooting, training, cabling.

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Store manager: Patrick Yuen
90 S. Spruce Ave, Ste N
So. San Francisco, CA 94080
415-872-1377 Fax:415-872-6634
Areas of Specialty (and In-House Specialist): Networking (Patrick Yuen); SCSI Devices (Linda Lagarejos)
Operating Systems Supported: Novell Netware.
Top-Selling Brands in 1991: AST Research, Novell, Western Digital
Special Value-Added Services: System configuration, on-site support for networks, on-site training, on-site installation.

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1095 E. Duane Ave, #107
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Areas of Specialty (and In-House Specialist): LAN/Network (Moiz Khan); PC/Mac (Moiz/Rafia); UNIX (Moiz Khan).
Operating Systems Supported: MS-DOS, Macintosh, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Unisys, Novell, NEC
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415-592-6735
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Operating Systems Supported: MS-DOS, Mac OS, Apple II, Windows 3.0.
Top-Selling Brands in 1991: Education, Games, WordPerfect
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Store manager: Dr Noble
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Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: NEC, Microsoft, Windows Products
Special Value-Added Services: Programmer and user training for Windows and OS/2 software customization and application development.

ONH Enterprise
Store manager: Sidney Shaw
749 Stewart Ave
Daly City, CA 94015
415-756-6056
Areas of Specialty (and In-House Specialist): Desktop Publishing (June Shaw); dBase, FoxBase, DBXL Programming (Kenneth Shaw); COBOL, C Programming (Sidney Shaw).
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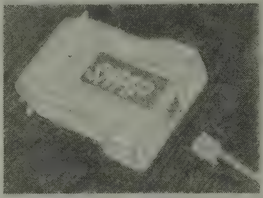

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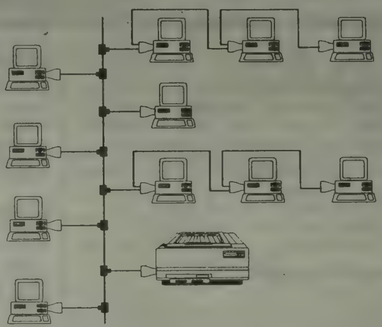

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Areas of Specialty (and In-House Specialist): Data Files Exchange/UNIX (Chin-te Chen); Data Files Exchange/PC (Elizabeth Yu); Expert Systems (Wun Chiou).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Mac-In-DOS, Common Link
Special Value-Added Services: On-line technical support via 800#, 30-day money-back guarantee.

Palo Alto Computer
Store manager: Mark
3483 El Camino Real
Palo Alto, CA 94306
415-493-8209 Fax:415-857-0457
Areas of Specialty (and In-House Specialist): Computer Drive DRAM CPU
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: AST
Special Value-Added Services: Service.

PanPacific Computer Corporation
Store manager: Simon Wang
165 San Gabriel Dr
Sunnyvale, CA 94086
408-720-1315 Fax:408-720-1102
Areas of Specialty (and In-House Specialist): 486 Motherboard/System (Simon Wang); Computer System Integration (Simon Wang)
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San Mateo, CA 94401
415-343-0343 Fax:415-343-1516
Areas of Specialty (and In-House Specialist): ACC Pac Plus (Larry Douglas); Multimedia (Robert Cram); Small Business Networks (Dawn Cooks).
Operating Systems Supported: MS-DOS, UNIX/XENIX, Windows.
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Store manager: George Diamond
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Areas of Specialty (and In-House Specialist): MS-DOS 5.0 (George Diamond); Windows 3.0 (George Diamond); WordPerfect 5.1 (George Diamond).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Special Value-Added Services: Individualized training, technical writing, consulting.

PC Warehouse
Store manager: Louis Wang
454A California Ave
Palo Alto, CA 94306
415-321-9288 Fax:415-321-9828
Areas of Specialty (and In-House Specialist): Novell Network (Louis Wang); Desktop Publishing (Les Fong)
Operating Systems Supported: MS-DOS, UNIX/XENIX, DR DOS.

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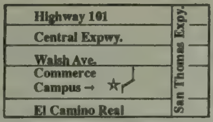

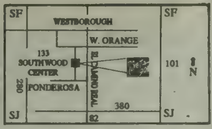

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Operating Systems Supported: MS-DOS, UNIX/XENIX, DR DOS.
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415-583-7222/800-999-1CPU Fax:415-583-1974
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Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Polysystems, Novell, Mylex
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Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Various PC clones, Portal
Special Value-Added Services: Call for information on support, warranties & return policies.

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El Sobrante, CA 94086
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Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Special Value-Added Services: UNIX, Novell, Database Design.

Protek Electronics
Store manager: Michael Zhu
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Palo Alto, CA 94306
415-327-2518 Fax:415-323-7506
Areas of Specialty (and In-House Specialist): PC Systems Selling (Sandy Chen); Network design & installation (Victor Chen); Customized Application (Mike Zhu).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Protek PC, ProNet Network OS, Restaurant Management System
Special Value-Added Services: 1-year warranty for PC systems, free training for network products & restaurant management systems, 10% restock fee for non-defective returns.

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Store manager: Dave Greene
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415-571-0425
Areas of Specialty (and In-House Specialist): Hardware (Dave Greene); IBM and Compatibles; Software (various) (Doc Wilson).
Operating Systems Supported: MS-DOS, OS/2
Top-Selling Brands in 1991: MS-DOS, OS/2
Special Value-Added Services: Service, support, warranties, return policy.

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Store manager: Roger Willis
1163 Chess Dr., #D
Foster City, CA 94404
415-572-2996
Areas of Specialty (and In-House Specialist): Software Consulting (Willis Xhou); System Hardware Engineering (Roger Wong); Computer Marketing (Belle Chou).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 486-33MHz, 386-25MHz AT, 286-20MHz AT
Special Value-Added Services: 1 full year parts and labor service warranty with any system purchased. We emphasize more on personal selling.

Santron Computers
Store manager: Tony Lee
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415-571-1619 Fax:415-571-6079
Areas of Specialty (and In-House Specialist): Network Applications (Thomas Peng); UNIX Applications (Thomas Peng); CAD Applications (Tony Lee).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell, 3 Com.
Top-Selling Brands in 1991: Santron systems, NEC, Sony
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408-245-6666 Fax:408-245-3103
Areas of Specialty (and In-House Specialist): 486-33MHz Business; Network Installation; CAD Systems, Novell, LANtastic.
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Schwab Computers, Artisoft, Everex
Special Value-Added Services: We offer 1-year parts and labor warranty, DOS, Windows, training. 30-day compatibility return policy.

Sunlight Computers & Supplies
Store manager: Bernard Ho
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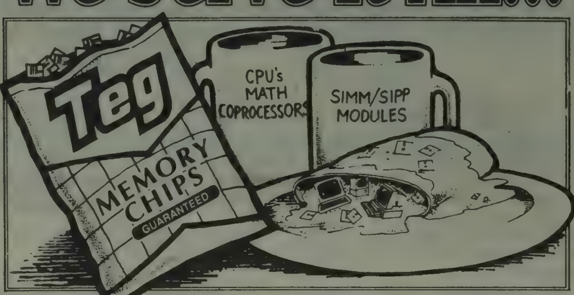

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Operating Systems Supported: MS-DOS

Top-Selling Brands in 1991: Everex, Panasonic, Citizen

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Store manager: Raymond Catbagan
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Top-Selling Brands in 1991: AMI, Micronics, Northgate

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Operating Systems Supported: MS-DOS

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Special Value-Added Services: On-site service, training, upgrade, trade-in.

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Operating Systems Supported: MS-DOS

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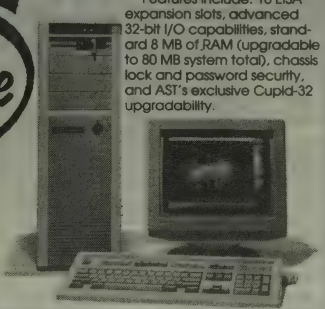

Standard Features

- AST Bravo 386SX/20 computer (Model 43V).
- 3.5", 1.44 MB diskette drive.
- 40 MB hard disk drive.
- 2 MB RAM standard expandable to 16 MB on system board.
- MS-DOS® 3.3–pre-installed.

Bundled Extras

- AST Super VGA display monitor.
- Microsoft® Windows 3.0–pre-installed.
- Microsoft® PS/2® compatible mouse.

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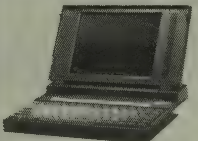

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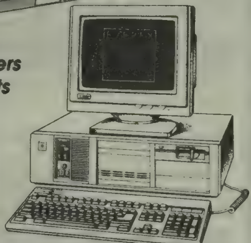

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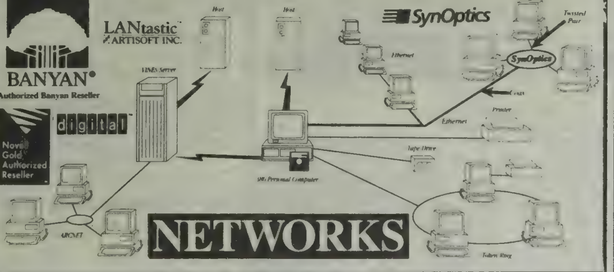

Northern California

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continued

PIC Operating.
Top-Selling Brands in 1991: Novell Netware, ZTS Systems, Conner Hard Drives
Special Value-Added Services: Free phone technical support. 1-year warranty on parts and labor. 30-day money-back guarantee. (Optional on-site support.)

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Special Value-Added Services: Provides total solution.

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Store manager: Ron Atiba
1723 Webster St
Oakland, CA 94612
510-451-6629 Fax:510-451-6645
Areas of Specialty (and In-House Specialist): Data Base (Ron Atiba); Word Processor (Ron Atiba); Accounting (Ron Atiba).
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: IBM, Clone, Everex
Special Value-Added Services: Service contract, extended warranty, 30-day return policy.

Advanced Computer Systems
Store manager: John Isac
1987 N. Main St
Walnut Creek, CA 94596
510-945-8011 Fax:510-945-4941
Areas of Specialty (and In-House Specialist): Novell Network (John Isac); UNIX (Naem); CAD.
Operating Systems Supported: MS-DOS, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Mylex, AMI, HP
Special Value-Added Services: Novell, UNIX, CAD workstations. The best file servers workstation in the 486 world.

Advanced R & D Systems, Inc
Store manager: John T. Nguyen
4035 Clipper Ct
Fremont, CA 94538
510-657-9811 Fax:510-657-9813
Areas of Specialty (and In-House Specialist): Novell LAN; Graphics, dBase, Spreadsheet; DOS, Windows.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Precision 486/33, Precision 386/33, Precision 386 SX
Special Value-Added Services: Free technical support/service, 30-day money-back warranty, quality, value, reliability, competitiveness.

Alpha Fine Computer Furniture
Store manager: Victor Jurado
2241 N. Main St
Walnut Creek, CA 94596
510-930-0277
Areas of Specialty (and In-House Specialist): Computer Furniture
Top-Selling Brands in 1991: Winners Only, LJ Howard, Data Desk
Special Value-Added Services: Complete office furniture design layout. Custom orders and finishes our specialty. Free delivery service available.

ATY Computer
Store manager: Alex Yu
3727 13th Ave
Oakland, CA 94610
510-482-3775 Fax:510-482-3775
Areas of Specialty (and In-House Specialist): Desktop Publishing (Alex Yu); Graphic Animation (Alex Yu); Midi (Alex Yu).
Operating Systems Supported: Atari TOS.
Top-Selling Brands in 1991: Calamus, Pagestream, LDW Power
Special Value-Added Services: Free in-store training for any system and software purchase.

Berkeley Integration Group
Store manager: Darren Oho
2152 Russell St
Berkeley, CA 94705
510-548-5678 Fax:510-548-8945
Areas of Specialty (and In-House Specialist): MS Windows (Darren Ojo); Novell Netware, 3rd Party (Serge Wilson); POA Pro (Serge Wilson).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Everex, Hayeg, Mylex
Special Value-Added Services: Network design, trouble shooting and repair, PC upgrade and repair. On-site service options.

Boss Communications Systems
Store manager: Andy Lin
46560 Fremont Blvd, #104
Fremont, CA 94538
510-623-1580
Areas of Specialty (and In-House Specialist): Networking
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Conner, Seagate, TWE
Special Value-Added Services: 5-year labor warranty on all systems and networks. We do custom network installations and special patch panel work.

California Computer Options
Store manager: William Tom
2213 Shattuck Ave
Berkeley, CA 94704
510-486-8292 Fax:510-848-0745
Areas of Specialty (and In-House Specialist): Networking & Connectivity; Graphics & Desktop Publishing; Word Processing.
Operating Systems Supported: MS-DOS, Novell Netware.
Top-Selling Brands in 1991: AST, Toshiba, Novell
Special Value-Added Services: Network consulting, installation, service and support, training, rentals, on-site delivery and installation, in-store or on-site service, telephone support, 30-day lemon-free policy.

Catapult Systems
Store manager: Chuck Willemette
41277 Roberts Ave, #4
Fremont, CA 94538
510-659-0365
Areas of Specialty (and In-House Specialist): Networking; R & D
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Special Value-Added Services: Call for list of services.

Classic Computers
Store manager: Peter Jager
1876 Euclid Ave
Berkeley, CA 94709
510-704-0272
Areas of Specialty (and In-House Specialist): Hardware; Communications; Networks.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: US IT, Geoworks, Windows
Special Value-Added Services: 1-year parts and labor, on-site warranty available.

ComputerLand of Fremont
Store manager: Tony Boudames
3381 Walnut Ave
Fremont, CA 94538
510-794-9311
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: HP, Okidata, Toshiba
Special Value-Added Services: Factory authorized repair center. On-site service available.

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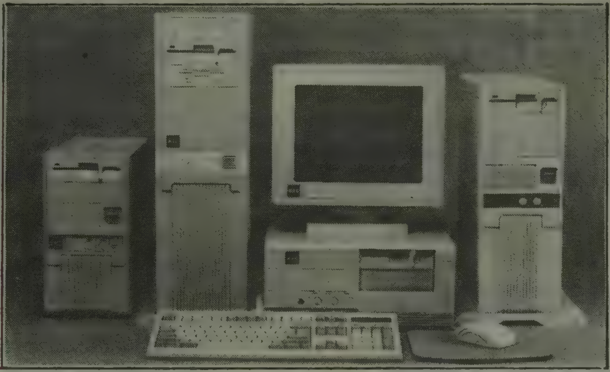

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386-25 64K Cache	$508
386-25	$488
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286-16	$288
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Basic System Configuration includes:
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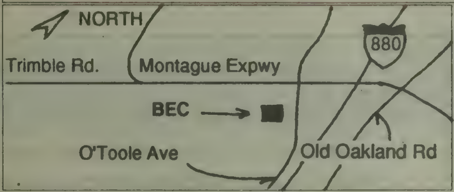

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486-25 ISA Cache System
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- 14" SVGA monitor

1024x768 w/1MB SVGA card
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386-33 Cache System
- Basic system configuration
- IDE 120MB 19ms hard drive
- 14" SVGA monitor

1024x768 w/1MB SVGA card
Special **$1158**

386-25 Cache System
- Basic system configuration
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- 14" SVGA monitor

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386-25 System
- Basic system configuration
- IDE 40MB 19ms hard drive
- 14" SVGA monitor

1024x768 w/1MB SVGA card
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386SX-25 System
- Basic system configuration
- IDE 40MB hard drive
- VGA monitor w/512K16bit VGA card

Special **$848**

386SX-16 System
- Basic system configuration
- IDE 40MB hard drive
- VGA monitor w/512K16bit VGA card

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286-16 System
- Basic system configuration
- IDE 40MB hard drive
- VGA monitor w/512K 16bit VGA card

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286-12 System
- Basic system configuration
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for system upgrades only

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14" VGA color monitor w/16bit 512K VGA card	$285
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Trident VGA 1024x768 1MB	$85
Internal Modem 2400 baud	$45
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IDE controller W/I/O 2G/1P/1G	$23

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CP30104 120MB IDE 19ms	$345
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SEAGATE	
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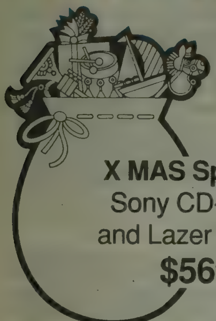

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Panasonic 4450i	Call
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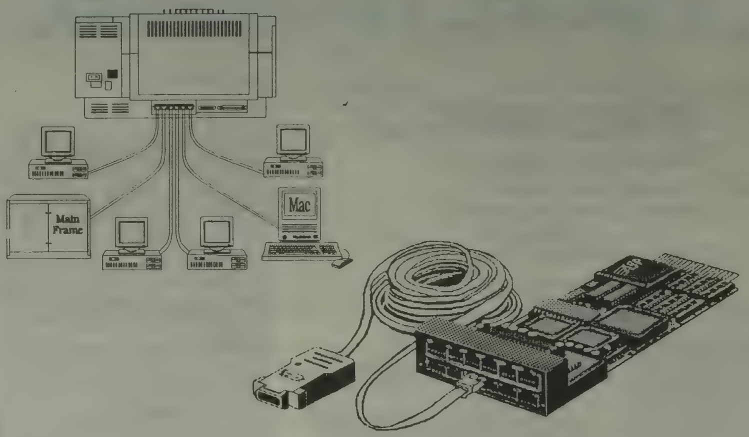

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Hayward, CA 94501
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Areas of Specialty (and In-House Specialist): CADD (William Van Lerra); DTP; Novell (Bobbie Van Lerra).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: IBM, Epson, HP
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Store manager: Pat Blecha
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510-623-8843 Fax:510-623-7403
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Store manager: Simon Lam
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Hayward, CA 94545
510-784-1136
Areas of Specialty (and In-House Specialist): CAD/CAM; Accounting; Machine Shop Application.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Intel, Conner, Panasonic
Special Value-Added Services: 5 years labor, money back, free delivery in Bay Area. Lifetime technical support, money-back guarantee.

The Computer Store
Store manager: Bernard Lagud
1601 N. Main St
Walnut Creek, CA 94596
510-256-8828 Fax:510-256-9797
Areas of Specialty (and In-House Specialist): DOS, Novell (Bernard Lagud); DOS, Novell (Christine Emery)
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Optima systems, SLK systems, Panasonic
Special Value-Added Services: Computer repair, Novell Network setup & training, XENIX Base Multiuser Accounting systems, 1-year warranty parts and labor, 30-day compatibility money-back guarantee.

Computer Training Network
Store manager: Peter Bennett/Rick Frost
2400 Olympic Blvd, Ste 3281
Walnut Creek, CA 94595

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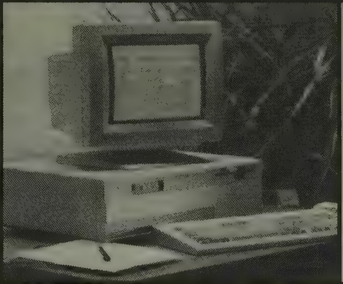
Experiencing unusual problems with your computer? Give our technicians a call today! For a limited time, we'll check your complete system out (from motherboard to hard disk) and review any potential problems with you—for FREE! Call us at (408) 947-8881 for more details and appointments.



33 MHz CACHED 386 COMPUTER SYSTEM

ASSEMBLED SYSTEM INCLUDES:
- 33 MHz 386 motherboard with cache
- 4 Mb RAM • 89 Mb 19ms hard disk
- VGA monitor • Serial, parallel & game ports
- Serial mouse • 1.2Mb 5-1/4" floppy drive
- 101 key Keyboard

OTHER CONFIGURATIONS AVAILABLE!

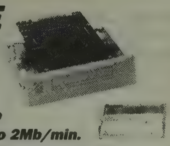
$1699

NON-INTERLACED 1024 x 768 MONITOR & CARD

Includes 14" monitor with 16 bit 1024x768 VGA card.

$$\$499^{95}$$

120Mb TAPE BACKUP



- 286/386/486 version backs up to 4Mb/minute
- 8088 version backs up to 2Mb/min.
- Easily connects to existing floppy controller

Ask about other versions!

$$\$289^{95}$$

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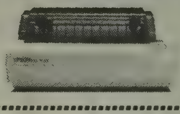
Perfect for the home or office!



LX-810	$\$159^{95}$
LQ-570	$\$259^{95}$

Includes scaleable fonts

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12MHz 286 $\$99^{95}$

33MHz 486 $999

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40MHz CACHED 386 $549

16MHz 386SX $\$199^{95}$

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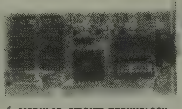
ALL MOTHERBOARDS HAVE 0K RAM INSTALLED

8/16 BIT VGA CARD

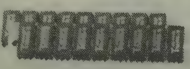
- 8/16-bit 8088 or 286/386/486 PC compatible card
- 132 column text
- 256K video RAM
- Includes popular drivers



MODULAR CIRCUIT TECHNOLOGY

$$\$49^{95}$$

SIMM MEMORY



256Kx9 80nS	$\$11^{95}$
1Mx9 80nS	$\$44^{95}$
4Mx9 80nS	$\$179^{95}$

Most other RAM configurations available
Call for prices!

YOUR CHOICE!

1.44MB OR 1.2MB FLOPPY DRIVE

$$\$64^{95}$$

CONNER DRIVES

42.6Mb 28mS $189	84.1Mb 19mS $299
120Mb 19mS $399	212Mb 16mS $599

NEW!

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NEW!

- Compatible w/High Sierra, ISO 9660 and Apple Mac HFS formats
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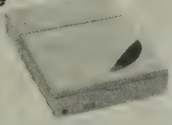

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Other versions also available

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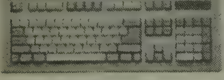
FOR 8088 & 286/386/486'S



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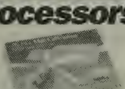
Math Co-Processors

intel®



80287-XL	12MHz	$\$89^{95}$
80387-SX	16MHz	$\$129^{95}$
80387-SX20	20MHz	$\$149^{95}$
80387-DXP	33MHz	$\$199^{95}$
80487-SX	20MHz	$\$499^{95}$

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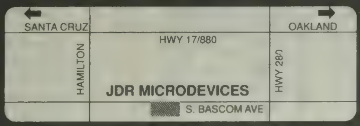

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20Mb or 40Mb hard drive
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- Sidekick v.2.0 $ 99
- Hayes Pocket 2400 *with* Smartcom $ 179
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$1051 Retail

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El Cerrito, CA 94530
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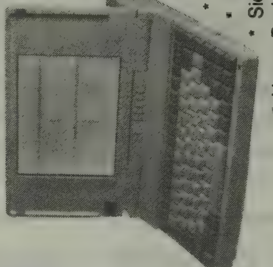
510-528-6633



Northern California

COMPUTER RESELLERS

continued

510-935-5203/707-647-0863
Areas of Specialty (and In-House Specialist): Flexi/CAD on the MAC (Rick Frost); Database Programming (Peter Bennett); MS Excel/MAC or PC (Peter Bennett).
Operating Systems Supported: MS-DOS, Macintosh
Special Value-Added Services: Consulting, support contracts, training programs, Flexi, CAD training and support. Training for MS Excel, MS Word, Pagemaker, Flexi, CAD, 4th Dimension, FM Pro, System 7 upgrades.

CompuTown
Store manager: Shahid Azdee
1525 Contra Costa Blvd
Pleasant Hill, CA 94523
510-682-8696
Areas of Specialty (and In-House Specialist): Auto CAD (Mohammad Waseem); SUN (Imram Bawani); Novell/Netware (Rashid Naseem).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, SUN.
Top-Selling Brands in 1991: AST, Zenith, Sharp
Special Value-Added Services: On-site service. Complete factory authorized repairs extended warranty.

CompuTown
Store manager: Shahid Shaikh
370 S. Abbott Ave
Milpitas, CA 94503
510-682-8696
Areas of Specialty (and In-House Specialist): Auto CAD (Mohammad Waseem); SUN (Imram Bawani); Novell/Netware (Rashid Naseem).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, SUN.
Top-Selling Brands in 1991: AST, Zenith, Sharp
Special Value-Added Services: On-site service. Complete factory authorized repairs extended warranty.

Consulting Structural Engineer
Store manager: Anand Nene
4902 Park Blvd
Oakland, CA 94611
510-531-5249 Fax:510-531-5721
Areas of Specialty (and In-House Specialist): Computer Faxing (Anand Nene); Computer Applications (Anand Nene)
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: TeFax Fax Machine by Relisys
Special Value-Added Services: Support, installation, and setup help for TeFax by Relisys.

Cornerstone Computer Corporation
Store manager: Steven Harvey
6988 Sierra Ct
Dublin, CA 94568
510-828-0981 Fax:510-828-5933
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: IBM, Hewlett-Packard, Toshiba/Epson
Special Value-Added Services: Quick deliveries and very competitive prices to the business community. We can deliver complete shipments from our 10,000-sq-ft warehouse in Dublin, CA. We also have a 2000-sq-ft service center.

DataWest Computer Systems
Store manager: Shakir Khan
46750 Fremont Blvd, Ste 101
Fremont, CA 94538
510-490-6494 Fax:510-659-1575
Areas of Specialty (and In-House Specialist): Novell (Au Fazili); dBase; Accounting.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Toshiba, ALR + AST, Compaq
Special Value-Added Services: On-site service. Complete factory authorized repair center.

D&D Computer Consulting
Store manager: Danielle A. Bailey
220 Galway Bay
Alameda, CA 94501
510-769-1061 Fax:510-840-7288
Areas of Specialty (and In-House Specialist): Networks, IBM, Mac (Danielle A. Bailey); DataBase, Programming, Software (Danielle A. Bailey); Desktop Publishing, Hardware (Danielle A. Bailey).
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Novell Netware
Special Value-Added Services: On- and off-site service and maintenance, help-desk and phone suppport, 1-year warranty on purchases, includes parts and labor.

Digitec Computers
Store manager: David Young
37458 Glenmoor Dr
Fremont, CA 94536
510-793-0898
Areas of Specialty (and In-House Specialist): Hardware; Networking
Operating Systems Supported: OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Sony, Orchid, Adaptic
Special Value-Added Services: 5-year labor, 1-year parts warranty. On-site network service.

Discount Computer Products
Store manager: Reny Morris
1520 W. Winton Ave
Hayward, CA 94545
510-783-7788 Fax: 510-783-9611
Areas of Specialty (and In-House Specialist): 1–25 User LANS (Reny Morris); Accounting software for retailer (Reny Morris); Barcoding (Reny Morris).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Discount Computer Products, Rodime, TEAC
Special Value-Added Services: Lifetime technical support, 1-year warranty on parts, 5 years on labor, money-back guarantee, 24-hour turnaround on repairs.

D.J. Computer
926 San Pablo Ave
Albany, CA 94706
510-527-7697
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Epson, Citzen, Sony
Special Value-Added Services: 5-year labor warranty on all systems. Complete training center.

Domino Computer Self-Service Centers—Berkeley
Store manager: Sam
1552 Beach St, Ste B
Emeryville, CA 94608
510-653-6286 Fax:510-653-0287
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Concord
Store manager: Ron
1130A Burnett Ave
Concord, CA 94520
510-682-8934 Fax:510-682-8940
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Hayward
Store manager: Francis
28301 Industrial Blvd, Ste A
Hayward, CA 94545
510-732-0377 Fax:510-732-0388
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the

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Fax.(415) 751-4586

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Magnum Cache Systems

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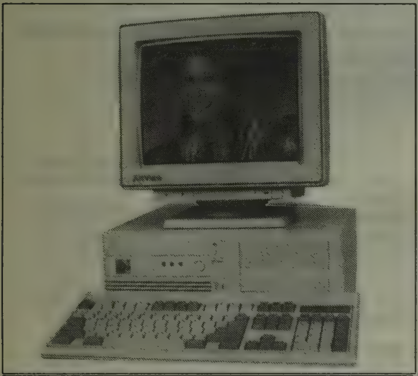
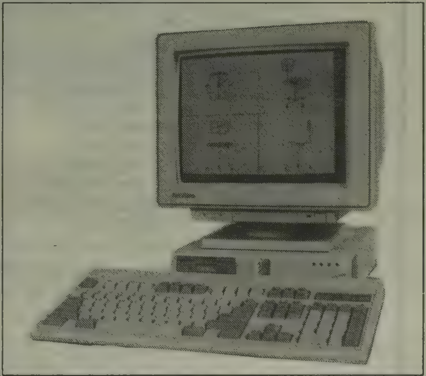


486 33/50 ISA

486 SX/20/25 ISA



LAN Station

Sub. System Configuration

Mother Board w/CPU. Mini Tower Case. Power Supply. IM . RAM Install On Board, 1:1 IDE Controller w/2SP/1P/1G, 2. High Density. Floppy Drives, Super TRIDENT w/1M RAM. VGA Card. Super VGA 0.28DP. Monitor. & 101 ENH. Keyboard.

SUB SYSTEM CONFIGURATION	HARD DRIVE 80MB	105 MB	120MB	200MB
486 - 33MHZ	$1559	$1595	$1630	$1800
486 - 33MHZ w/64K	$1645	$1695	$1720	$1897
486 - SX20/25	$1325	$1359	$1395	$1500
386 - 25MHZ	$1187	$1225	$1265	$1475
386 - 33MHZ	$1229	$1275	$1300	$1549

286 12MHz $275

- Mini Tower Case
200W. Power Supply
286 12MHz Main Board
1 MB Main Memory Installed
IDE Floppy Disk/Hard Disk Controller
1.2MB Floppy Drive
2 Serial, 1 parallel Printer Port
101 Keys Keyboard

286 16MHz $300

- Mini Tower Case
200W. Power Supply
286 16MHz Main Board
1 MB Main Memory Installed
IDE Floppy Disk/Hard Disk Controller
1.2MB Floppy Drive
2 Serial, 1 parallel Printer Port
101 Keys Keyboard

386sx 16MHz $375

- Mini Tower Case
200W. Power Supply
386 16MHz Main Board
1 MB Main Memory Installed
IDE Floppy Disk/Hard Disk Controller
1.2MB Floppy Drive
2 Serial, 1 parallel Printer Port
101 Keys Keyboard

386sx 25MHz $420

- Mini Tower Case
200W. Power Supply
386sx 25MHz Main Board
1 MB Main Memory Installed
IDE Floppy Disk/Hard Disk Controller
1.2MB Floppy Drive
2 Serial, 1 parallel Printer Port
101 Keys Keyboard

VIDEO CARD & MONITOR

* CASPER 14" FLAT SCREEN AMBER MONITOR w/ MONO (HERCULLES) GRAPHIC CARD	$100
* GOLD STAR 14" VGA COLOR MONITOR w/ VGA COLOR GRAPHIC CARD	$315
* ARTVIEW 14" SUPER COLOR VGA MONITOR w/ TRIDENT SVGA CARD + 1MB VRAN (1024 x 768 Res. ,).28mm)	$360
* ADI MICROSCAN 14" SUPER VGA MONITOR w/ TRIDENT SVGA CARD + 1MB VRAN (1024 x 768 Res., 0.28mm)	$470

HARD DISK

* 1.44MB (3-1/2') H.D. FLOPPY DRIVE	$ 60
* PLUS QUANTUM 52MB HARD DISK (17ms)	$200
* PLUS QUANTUM 85MB HARD DISK (17ms)	$285
* PLUS QUANTUM 105MB HARD DISK (17ms)	$320
* CORNER 120MB HARD DISK (15ms)	$345
* CORNER 200MB HARD DISK (15ms)	$555
* PLUS QUANTUM 210MB HARD DISK (17ms)	$585

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master charge
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Pre-Christmas Sale

COMPUTER SYSTEMS:

• 286-12.5	1 Meg RAM, 360K Floppy, 3.3 Dos, 14" Amber Mono Flat Screen	$299
• 286-16	2 Meg RAM, 1.2 Floppy, Keyboard, 3.3 DOS, 14" Amber Mono Flat Screen	399
• 286-12.5	1 Meg RAM, 1.2 Floppy, 3.3 Dos, 14" Wyse EGA Monitor	575

Upgrades For Systems:

20 Meg HD	Add $100	80 Meg HD	Add $250
40 Meg HD	Add 145	105 Meg HD	Add 285
62 Meg HD	Add 225	200 Meg HD	Add 399

• 386-16 DX	1 Meg RAM, 1.2 Floppy, Keyboard, 3.3 Dos	$525
• 386-33	2 Meg RAM, 1.2 Floppy, Case & Pwr, Keyboard	799

All Come With Centurian Warranty!

HARD DRIVES:

Rodime 3259T	215 Meg SCSI	3.5"	18ms	$450
Rodime 3259A	212 Meg IDE	3.5"	18ms	399
Rodime 3128A	105 Meg IDE	3.5"	18ms	285
Rodime 3095A	80 Meg IDE	3.5"	18ms	220
Rodime 5128S	105 Meg SCSI	5.25"	18ms	250
Rodime 3088T	72 Meg SCSI	3.5"	18ms	225
Microscience 4070	62 Meg MFM/RLL	3.5"	18ms	250
Seagate ST-253	42 Meg MFM/62 Meg	5.25"	28ms	125
Conner CP-3022	22 Meg IDE	3.5"	28ms	100

FLOPPY DRIVES:

1.2 Meg	$55
360K	35
1.44 Meg	49.95

CONTROLLERS:

HD & FD MFM AT	$37
HD MFM XT	37
IDE HD & FD	20
DTC 3250 SCSI	79
DTC 3280 SCSI	129

VIDEO CARDS:

MGA	$12
CGA	13
EGA	25
SVGA	85

MISC:

XT System, 2 360K Floppies, 640K RAM	$100
Microsoft Compat. Mice	39.95
Joysticks	15
External HD Case & Pwr	40
Tape B/U, Qic 02 150 meg w/Software	350
New Zenith UPS Power B/U, 800 Watts	299
New Qume Laser, 512K, 6ppm	675
New Qume Full Page Monitor w/Card 1024x768	490

MONITORS:

Monochrome 14" Flat Screen (Amber)	$60
Wyse 640 EGA 640x480 .31 Dot Pitch 14" (Refurbished)	150
Samsung 800x600 .31 DP Multiscan 14"	275
Samsung 1024x768 .28 DP 14"	300

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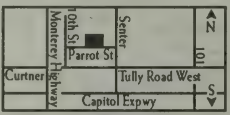

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MORGAN HILL, CA 95037
(101 South Exit Cochrane Ave West 3 Lights and Right)
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Northern California COMPUTER RESELLERS continued

computers with us. We will assist them to make sure the computer they build works.

Drive Repair Services Corp

Store manager: Diane Berger
2122 Adams Ave
San Leandro, CA 94577
510-430-0595

Areas of Specialty (and In-House Specialist): Data Recovery (Larry Weissman); Repair Winchester hard & floppy drives (Jim Love); Sell new & used drives (Diane Berger).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Maxtor, Micropolis, Seagate

Dublin Computer Systems/MicroAge

Store manager: Stephen Graziani
6635-D Dublin Blvd
Dublin, CA 94568
510-829-8644

Areas of Specialty (and In-House Specialist): Health Care (Chris Myers); CAD (John Case); Graphic Arts (Greg Licon).
Operating Systems Supported: Macintosh, Ethernet Network.
Top-Selling Brands in 1991: Macintosh, Radius, Supermac
Special Value-Added Services: 30-day satisfaction guarantee on Mac equipment. On-site available with loaner, complete repair.

Echo Technology

Store manager: Joe Minj & Jason Shu
43182 Christy St
Fremont, CA 94538
510-438-0200

Areas of Specialty (and In-House Specialist): Hardware; Networking
Operating Systems Supported: MS-DOS, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Maxtor, Conner, Seagate
Special Value-Added Services: 1-year parts warranty. Lifetime labor special. Networking service, on-site service.

EFI's Discount Computer

Store manager: Efi Lubliner
3441 Golden Gate Way
Lafayette, CA 94549
510-283-1700

Areas of Specialty (and In-House Specialist): Hardware; Networking; Accounting Packages.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: AST, Everex, Samsung
Special Value-Added Services: 1-year parts and labor, technical support. Free delivery and installation of computer system.

EMPac International

47560 Seabridge Dr
Fremont, CA 94538
510-683-8800 Fax:510-683-8662

Areas of Specialty (and In-House Specialist): EPI 386-40 Motherboard (Albert Chi); EPI 486-33 Motherboard (Albert Chi); 386/486 Systems (Peter Lau).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: EPI 386-40 Motherboards, EPI 486-33 Motherboards, EMPac Systems
Special Value-Added Services: All systems undergo min. of 48-hour burn-in. Nationwide warranty, on-site service available. Dedicated personnel to handle each account.

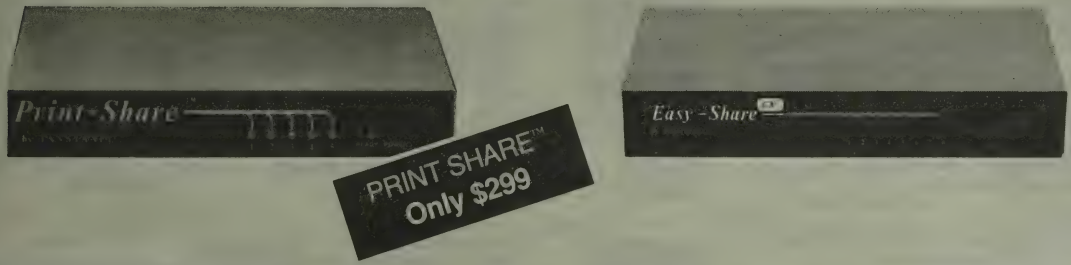
Evergreen Computer International

Store manager: Peter Chang
2700 Rydin Rd, #C
Richmond, CA 94804
510-526-8667

Areas of Specialty (and In-House Specialist): Software Consulting; Networks; DTP.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Orchid, Panasonic, Logitech

TANSTAAFL

Difficult to pronounce, even more difficult to spell, easy to install, economical to buy and a cinch to use.



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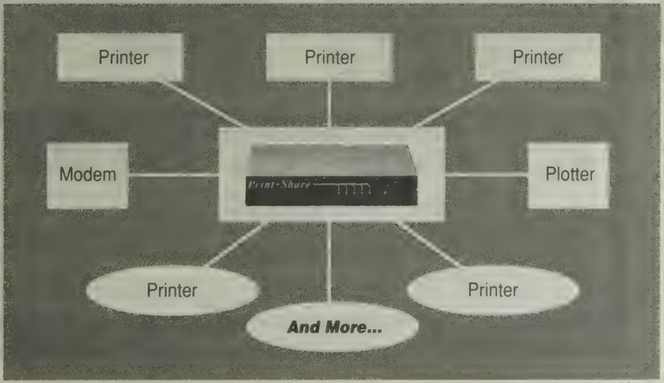

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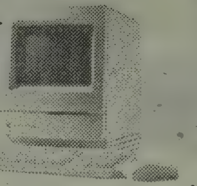

- Twice the performance of the Macintosh® Classic®
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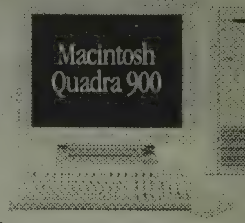

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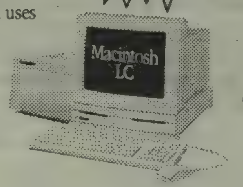

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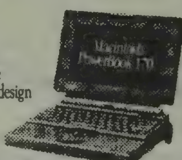

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Any Model

The Macintosh® IIci boasts a 25MHz 68030 microprocessor for power with room to grow. That means the IIci packs enough power and versatility for almost any application. An excellent choice for business, it comes with flexible video support built-in. Of course the Macintosh® IIci is also System 7.0® capable. Plus if you buy three or more you qualify for an $800 rebate on each system!

Macintosh IIci

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IIsi 3/40

$800 Rebate*

IIsi 5/80

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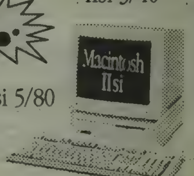

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This PC features all the power you need—including the power to take it with you. Its 12MHz 286 processor, large 640 x 400 display and comfortable display enhance your comfort and productivity. All this at an affordable price makes this a tiny notebook with no room for compromise!

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Includes 1MB RAM, 40MB disk, keyboard and floppy drive

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The T3200SX is the portable computer with everything you'll need down the road, including six expansion slots and five interface ports. That, plus the 16MHz 386SX processor and VGA display make it more powerful than many desktop computers. See Toshiba's most internally expandable portable today!

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Toshiba T2000SX

The 16MHz, 80386SX based T2000SX is a tiny portable that packs major punch. It is expandable to 9MB RAM and features an IBM compatible VGA display. So don't let its dimunitive size fool you. When it comes to power, this PC stands tall.

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Includes 1MB RAM, 40MB disk, ergonomic keyboard and floppy drive

AST Premium Exec

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- 12 MHz 80286 CPU
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- VGA CCFT "Paper White" screen
- Weighs only seven pounds!

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The HP LaserJet IIP Plus offers the ideal balance of price and performance. This 4 PPM, 300 DPI laser printer can handle four paper sizes including envelopes and transparencies. Perfect for both DOS and Macintosh®, the IIP Plus can easily be upgraded with the optional PostScript® cartridge and AppleTalk®network interface.

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Northern California

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Fry's Electronics, Inc

Store manager: John Angle/Robbie Hanna
440 Mission Ct
Fremont, CA 94539
510-770-3797 Fax:510-770-3700
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Hewlett-Packard, IBM, Panasonic
Special Value-Added Services: 7-day-a-week service. Novell network installation, extended service plan including on-site service and loaner program.

Gigabytes

Store manager: Carrie Harrington
37053 Cherry St
Newark, CA 94560
510-790-0961 Fax:510-790-0915
Areas of Specialty (and In-House Specialist): Wholesale pricing (everyone); Memory upgrades (everyone); Parts (everyone).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Apple, IBM, Compaq
Special Value-Added Services: We provide technical advice on hardware configurations.

Herb's Discount Software

Store manager: Matt McCarty
4406A Enterprise Place
Fremont, CA 94538
510-490-6335 Fax:510-490-6337
Areas of Specialty (and In-House Specialist): Software liquidation; Wholesale retail
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX, All.
Special Value-Added Services: Largest computer software liquidator in Northern CA.

Huey Associates, Inc

Store manager: Steven J. Huey
1933 Davis St., Ste 218
San Leandro, CA 94577
510-562-8699 Fax:510-562-9408
Areas of Specialty (and In-House Specialist): Consulting (Steven J. Huey); UNIX Systems & PC-Networks (Todd Lee); Training & Support (Gene Gentry).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Interactive UNIX , AMR Unterminal, Informix
Special Value-Added Services: Huey Associates offers Accounting, Data Base, Word Processing for all UNIX and DOS platforms. Consultation sale, support, and training are available.

King Star Computer, Inc

Store manager: Sam Liu
46560 Fremont Blvd, #305
Fremont, CA 94538
510-659-8590 Fax:510-659-8644
Areas of Specialty (and In-House Specialist): Sales (Kirby, Ying, Andrew, Rui); Technical Support (Sam); Purchasing (Wen).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Supercom, Panasonic, Western-Digital
Special Value-Added Services: 1-year warranty parts and labor on systems.

Laser Fill

Store manager: Mike Kucera
67 Tina St
W. Pittsburg, CA 94565
510-458-9110
Areas of Specialty (and In-House Specialist): Laser Printer; Canon PC Copier; Service.
Top-Selling Brands in 1991: Canon, Hewlett-Packard, Apple
Special Value-Added Services: Guaranteed remanufactured cartridges for most popular lasers and PC copiers.

Laser-Life Technologies

Store manager: Kregg Williams
6711 Sierra Ct, Ste C
Dublin, CA 94568
510-829-9215 Fax:510-829-2845
Areas of Specialty (and In-House Specialist): PostScript Laser Printers (Kregg Williams, Christine Patterson, Randy Asher).
Operating Systems Supported: MS-DOS, Macintosh, SUN.
Top-Selling Brands in 1991: QMS, Abaton, NewGen
Special Value-Added Services: Complete on-site service, depot service center. Unlimited technical support. Advice on latest printing technologies.

Libre Service Computer, Inc

Store manager: Eric Shek
47266 Benica St
Fremont, CA 94538
510-438-0402 Fax:510-438-0489
Areas of Specialty (and In-House Specialist): Novell (Jeff Chang); LANtastic (Jeff Chang)
Operating Systems Supported: MS-DOS, OS/2
Special Value-Added Services: We provide person-to-person training to assemble their own computer, highly experienced tech support.

Mac Outlet

Store manager: Steve Glovin
48860 Milmont Dr
Fremont, CA 94538
510-623-8890
Operating Systems Supported: Macintosh
Top-Selling Brands in 1991: E-Machines, Seiko, Raster-ops
Special Value-Added Services: 30-day return policy, replacement policy.

McTek Systems, Inc

Store manager: Charles Lee
1521 San Pablo Ave
Berkeley, CA 94701
510-525-5129
Areas of Specialty (and In-House Specialist): Networking; dBase; Accounting.
Operating Systems Supported: MS-DOS, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: TI, Zenith, Compaq
Special Value-Added Services: Repairs, extended warranty, training.

Mercury Computer

Store manager: Jerry Chen
1443 Broadway
Oakland, CA 94612
510-763-7622
Areas of Specialty (and In-House Specialist): Hardware; Software
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Special Value-Added Services: Call for list of services.

MicroAge of Pleasanton

Store manager: Mohan Ajmani
5690 Stoneridge Dr
Pleasanton, CA 94566
510-463-2263
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: HP, Compaq, IBM
Special Value-Added Services: Authorized sales and service on all brands, complete repairs, on-site available.

Microline Computers

Store manager: Ben Ou
46757 Fremont Blvd
Fremont, CA 94538
510-770-1900
Areas of Specialty (and In-House Specialist): Hardware; Networking; Components.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Maxtor, Conner, Panasonic
Special Value-Added Services: 1-year warranty on parts and labor. Service center leasing. We carry a complete line of notebooks.

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256x4-70 .....4.40
256x4-80 .....4.25
256x4-100 ...3.95
256x4-120 ...3.70
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287-8 69
287-6 65
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80486DX-25 . 389
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386DX-33 198
386DX-25 165
386DX-16/20 CALL
386SX-16 ... CALL
386SX-20 89
AMD
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386DX-33 188
386DX-25 159
386SX-25 105

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4MB on board 189
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COMPUTER RESELLERS

continued

MicroStrategies Service
Store manager: Simrin Khalsa
1240 Powell St, Ste F
Emeryville, CA 94608
510-655-4466 Fax:510-655-1562
Areas of Specialty (and In-House Specialist): Authorized Zenith Service Center (Zoey Bloom); Authorized Panasonic Service Center (Zoey Bloom); Authorized Okidata Service Center (Simrin Khalsa).
Operating Systems Supported: MS-DOS, Macintosh
Special Value-Added Services: We repair PC and PC clones, Mac printer. We install and maintain networks, Novell, and invisible.

MicroTech International
Store manager: Amer Sheikh
5865 Doyle St
Emeryville, CA 94608
510-658-1433 Fax:510-658-7339
Areas of Specialty (and In-House Specialist): Toshiba Repair (Amer Sheikh); Novell Networking (Mohammad Fahim); Windows-Based Applications.
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: Toshiba, Hewlett-Packard, Compaq
Special Value-Added Services: Free tech support. In-house 48-hour burn-in/testing. Direct swap of defective equipment within 30 days.

MicroWorld
Store manager: Bill Yerger
1514 University
Berkeley, CA 94703
510-845-2000 Fax:510-548-2119
Areas of Specialty (and In-House Specialist): Desktop Publishing (Bill Yerger); Sign cutting via plotter (Bill Yerger)
Operating Systems Supported: MS-DOS, Amiga, Atari.
Top-Selling Brands in 1991: MS-DOS Clones, Atari, Amiga
Special Value-Added Services: MicroWorld specializes in sales and training for beginners for home computing and in supplying and advising professionals in the print industry.

Milkyway Computer Products
Store manager: Tony Lin
46713 Fremont Blvd
Fremont, CA 94555
510-659-8782 Fax:510-659-8526
Areas of Specialty (and In-House Specialist): Computer System (Tony/Jack/Mike).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: TEAC, Impression, Hyundai
Special Value-Added Services: 1-year parts and labor warranty on our systems.

Monarch Computers
Store manager: Sunil Ajmani
863C San Pablo Ave.
Albany, CA 94706
510-526-7741
Areas of Specialty (and In-House Specialist): Networking (Emile).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: AST, Hewlett-Packard, Mylex
Special Value-Added Services: Repairs, warranty, service, training, support.

NBM Computers
Store manager: Anir Hayaee
2047 University Ave
Berkeley, CA 94704
510-644-0215
Areas of Specialty (and In-House Specialist): Hardware; Utilities Software; Educational Software.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Leading Edge, Cannon, HP
Special Value-Added Services: 1 year parts and labor. Free delivery and setup, training. On-site service available.

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486-33 w/64K CACHE BASE SYSTEM w/4 MB RAM, 120 MB 18ms HARD DRIVE, SUPER VGA 0.28mm MONITOR w/16 BIT 512K SVGA CARD $1699

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- Base w/4 MB RAM
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- SVGA Monitor w/512K SVGA Card

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- 40 MB Hard Drive
- SVGA Monitor w/512K SVGA Card

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BASE INCLUDES:
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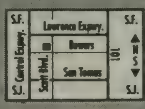

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Top-Selling Brands in 1991: Maxtor Hard Drives, Lite-On Keyboards, ViewSonic Monitor
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Store manager: Norman Houshangi
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Concord, CA 94518
510-825-6068 Fax:510-825-5940
Areas of Specialty (and In-House Specialist): System Consulting & Configuring; Medical Office Billings Systems
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Top-Selling Brands in 1991: Conner, Samsung, Maxtor
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PARS International Computers
Store manager: Paul Riffenburg
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Hayward, CA 94541
510-733-0103/800-947-4PIC Fax:510-733-0206
Areas of Specialty (and In-House Specialist): UNIX workstations/Xterminals (Mohammed Thomasebi).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Citizen, Conner peripherals, Orchid
Special Value-Added Services: 5-year labor warranty, highly acclaimed customer support, high-quality customized personal computers, very competitive, wholesale and retail.

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Store manager: Benson Cheng
48521 Warm Spring Blvd
Fremont, CA 94539
510-623-8862 Fax:510-623-8865
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Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Micronics, Conver, TEAC
Special Value-Added Services: 5-year labor warranty, complete repair center.

Printer Works
Store manager: Steve Roberts
3481 Arden Rd
Hayward, CA 94545
510-887-6116 Fax:510-786-0589
Areas of Specialty (and In-House Specialist): Laser Printer; DTP
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Top-Selling Brands in 1991: Printer Works, QMS, Canon
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SKV International
Store manager: Kenneth Kho
43232 Christy St
Fremont, CA 94538
510-623-8820 Fax:510-623-8840
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Areas of Specialty (and In-House Specialist): Small PICS; Order Entry (David Dunetz); Production Control Module (David Dunetz).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: SweetWARE
Special Value-Added Services: Cost-effective software for wholesalers and manufacturers that runs on PCs. Unlimited free telephone support. 45-day money-back guarantee.

Technical Wizardry
Store manager: Jonathan Howell
2531 9th St
Berkeley, CA 94710
510-548-2474 Fax:510-548-1936
Areas of Specialty (and In-House Specialist): On-site hardware maintenance & repair (Jon Howell); Novell network maintenance & repair (Jon Howell); Computer dealer sub-contract maintenance & repair.
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Standard Microsystems, Western Digital, Fujitsu
Special Value-Added Services: Technical Wizardry specializes in computer merchant repair services—high-quality support at low cost. We represent the computer merchant to their customer so they are not tempted to "go shopping" for other support.

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Fremont, CA 94538
510-490-1734 Fax:510-490-2805
Areas of Specialty (and In-House Specialist): Computer Hardware (Luis, Jadi, Kul, Jessie); Software (Luis); Networks (Luis).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX, Oracle.
Top-Selling Brands in 1991: Micron, Intel, Cyrix
Special Value-Added Services: The installation of memory products to any and all printers, systems, laptops, and notebooks.

U.C. Computer
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2596 Telegraph Ave
Berkeley, CA 94704
510-540-0372
Areas of Specialty (and In-House Specialist): Hardware; Accessories; Software.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: ALR, AMI, Mylex
Special Value-Added Services: Consulting, extended warranty, on-site service support, training.

Uncle Ralph's
Store manager: Timothy O'Haigan
2569 Telegraph Ave
Berkeley, CA 94704
510-841-5280 Fax:510-841-4743
Areas of Specialty (and In-House Specialist): Novell (Ron Panus/Adam Baum); LANtastic (Adam Baum/Ron Panus); WordPerfect (Ron Panus).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Packard Bell, Mylex, Panasonic
Special Value-Added Services: Same-day computer repair, open 7 days a week, 30-day refund priviledge. Lowest price guaranteed.

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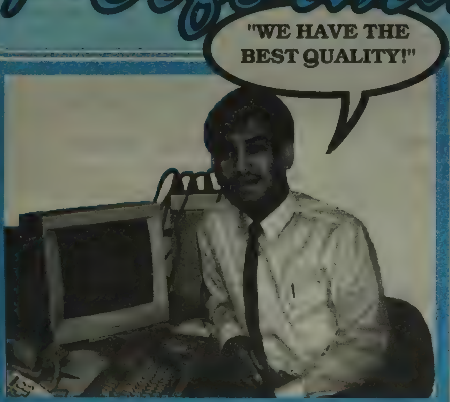
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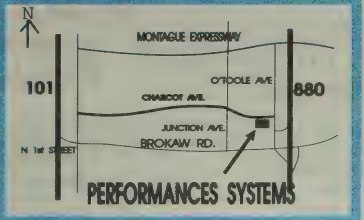

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- Teac 1.2 MB 5.25" Floppy Drive
- 2 Serial, 1 Parallel, 1 Game port, I/O Card
- Maxiswitch 101-Key Enhanced Keyboard
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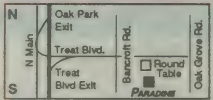

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Operating Systems Supported: MS-DOS, Amiga, Novell.
Top-Selling Brands in 1991: Connor, Maxtor, Quantum
Special Value-Added Services: 5 years labor, 1 year parts, free delivery for network and corp customers.

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Berkeley, CA 94704
510-548-8686
Areas of Specialty (and In-House Specialist): Hardware
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Mac, Apple II, IBM Compatibles
Special Value-Added Services: Return policy, rentals, trade-ins, training.

The Used Computer Store
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Top-Selling Brands in 1991: Mac, Apple II, IBM Compatibles
Special Value-Added Services: Return policy, rentals, trade-ins, training.

USM Distributors
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1513 N. Main St
Walnut Creek, CA 94596
510-943-1600
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Operating Systems Supported: MS-DOS, OS/2, Macintosh
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2990 7th St
Berkeley, CA 94710
510-845-3000 Fax:510-845-9707
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Top-Selling Brands in 1991: Apple, Hewlett-Packard, Toshiba
Special Value-Added Services: Service, training, support, warranties, 30-day return policy. Demo days, seminars, best price guarantee, open weekends and evenings, wide assortment of products.

Whole Earth Access
Store manager: Steve Janigan
Willows Shopping Center
Concord, CA 94520
510-686-2270 Fax:510-686-5958
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: Apple, Hewlett-Packard, Toshiba
Special Value-Added Services: Service, training, support, warranties, 30-day return policy. Demo days, seminars, best price guarantee, open weekends and evenings, wide assortment of products.

Winners Circle
Store manager: Andy Jong
2618 Telegraph Ave
Berkeley, CA 94704
510-845-4823
Areas of Specialty (and In-House Specialist): Multimedia (Jack Palmatier); Desktop Publishing (Vince Steeb)
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX, TOS, Atari.
Top-Selling Brands in 1991: AST, Everex, Amiga
Special Value-Added Services: On-site service, free training, BBS, free technical support, user groups, public domain library.

SAN JOSE

3Q Computer, Inc
Store manager: James Lee
2142 The Alameda, #D
San Jose, CA 95126
408-243-6782 Fax:408-248-8987
Areas of Specialty (and In-House Specialist): 486 System; 386 System; Networking & Communication.
Operating Systems Supported: MS-DOS, UNIX/XENIX
Special Value-Added Services: We provide 1-year warranty, technical support for software applications, hardware systems, and 30-day money-back guarantee.

Aamtech
Store manager: Mr Jessei
1650 Zanker Rd, Ste 244
San Jose, CA 95112
408-441-6244 Fax:408-441-8221
Areas of Specialty (and In-House Specialist): CPUS; Mathos; DRAMS.
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Special Value-Added Services: Just computer part sales.

Access Computer Technologies
Store manager: Steve Livinghouse
2225 El Camino Real
Santa Clara, CA 95050
408-247-4444 Fax:408-247-4448
Areas of Specialty (and In-House Specialist): dBase/FoxPro (Kris West); Novell Netware (Kris West); Epson printer repair (Charles Sullivan).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Epson, Panasonic, Everex
Special Value-Added Services: 1-year parts and labor warranty on all systems. Service center open 7 days a week. Custom configurations and special orders available.

ACR Systems, Inc
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2372 Walsh Ave
Santa Clara, CA 95051
408-727-5611, 5669 Fax:408-727-6484
Areas of Specialty (and In-House Specialist): Systems; Bar Codes; DOS Systems.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: 386-33/64K, AMI, Micronics
Special Value-Added Services: 1 year parts and 2 years labor.

Aims Information Systems
Store manager: Annie Feng
780 Montague Expwy, #303
San Jose, CA 95131
408-456-0111 Fax:408-456-0818
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
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Store manager: Thomas Chen
1310 Tully Rd
San Jose, CA 95122
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Operating Systems Supported: MS-DOS
Special Value-Added Services: AdvanTech sells and supports a full line of industrial-oriented hardware it manufactures.

AMT International
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2393 Qume Dr
San Jose, CA 95131
408-432-1790/408-432-0552 Fax:408-944-9801
Areas of Specialty (and In-House Specialist): Computer Memory, Math Co-Processor (John Garcha); Computer Systems & Peripherals (P. Shah); Memory Upgrades for IBM PS/2, (Minna Hinh).
Operating Systems Supported: MS-DOS, Amiga, UNIX/XENIX
Top-Selling Brands in 1991: Cyrix, Intel, Conners
Special Value-Added Services: Computer systems, service and technical support. 30-day money-back warranty. Hand delivery for local addresses.

Anova Microsystems Inc
Store manager: Raymond Chuang
2287 Ringwood Ave
San Jose, CA 95131
408-943-1660 Fax:408-943-9660
Areas of Specialty (and In-House Specialist): LAN (Daniel Hsu); Desktop Publishing (Charlie Lee); Database Management (Cliff Yu).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Anova, Aamazing, GTK
Special Value-Added Services: Technical support, extended warranty, flexible service policy.

ASA Computers
Store manager: Arvind Bhargava
370 Laurelwood Rd, #106
Santa Clara, CA 95054
408-496-6853 Fax:408-988-0359
Areas of Specialty (and In-House Specialist): DOS/UNIX Systems (Paul Gulati); ACCPac Accounting (Arvind Bhargava); LAN (Umesh Bargava).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Multiuser DOS.
Top-Selling Brands in 1991: ASA Computers, WREN-Seagate Drives, Mylex Boards
Special Value-Added Services: Full technical support, manufacturer's warranty work, custom development for industrial and commercial applications, project management for product development, system integration, testing and burn-in.

Bay Computers
Store manager: Luke Le
1252 S. Abel St
Milpitas, CA 95035
408-956-8014 Fax:408-956-8013
Areas of Specialty (and In-House Specialist): Software Support (UNIX, OS/2) (Luke Le); Hardware & Technical Support (Vince Luong); Technical Support (Kenny Ngo).
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Sony, Orchid, IDEK
Special Value-Added Services: We provide all our customers 1-year warranty on parts & labor. We respond very promptly on all service calls.

Blackship Computer Systems
2031 O'Toole Ave
San Jose, CA 95131
408-432-7500 Fax:408-432-1443

Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Blackship 386, Blackship 486, Blackship 386SX
Special Value-Added Services: We sell custom-configured systems. We provide 1-year parts and labor warranty, 1-year on-site service by G.E., 30-day money-back guarantee, toll-free technical support.

Bozeman Marketing Group, Inc
Store manager: Jeff Wu
16 Corning Ave, Ste 120
Milpitas, CA 95035
408-263-3158/408-263-6763 Fax:408-263-6763
Areas of Specialty (and In-House Specialist): Personal Computer
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Microsoft DOS, TEAC, Conner
Special Value-Added Services: Free installation of computer components. 1-year warranty.

Bush Computers, USA
Store manager: Joe S. Yan
3685 Enochs St
Santa Clara, CA 95051
408-773-9900 Fax:408-773-8410
Areas of Specialty (and In-House Specialist): PC Generic (Joe Yan); Auto CAD, Applications (Larry WU)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: IBM clone 80486-33MHz, 80386-33MHz, 80286-12MHz
Special Value-Added Services: 15-month warranty, replacement of defective boards most of the time.

C & J Computer
Store manager: Charles Lee
2370 A Walsh Ave
Santa Clara, CA 95051
408-727-0788 Fax:408-727-1209
Areas of Specialty (and In-House Specialist): Novell Netware Installation (Charles Lee).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: DTC SCSI Controller, Supertron SVGA Monitor
Special Value-Added Services: Free telephone no waiting support. 1-year parts and labor warranty.

Central Computer Systems
Store manager: Saul Young
820 Kiely Blvd
Santa Clara, CA 95051
408-241-0185 Fax:408-241-0390
Areas of Specialty (and In-House Specialist): Desktop Publishing (Iren Yu); Networking (Sherry Yeung); Panasonic Products (Norman Yip).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Everex, Panasonic, Microsoft
Special Value-Added Services: Most products have 1-year warranty. We also offer software and hardware training.

Centurion Surplus, Inc
Store manager: Jorge A. Lovato, Jr.
180 Cochrane Cr
Morgan Hill, CA 95037
408-778-2001 Fax:408-778-9420
Areas of Specialty (and In-House Specialist): Wyse Equip. Comp & Mont. Repair (Efrain Ortiz); Storage Mgr (John Marler); Sales/Tech Support (Jeff Naylor).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Wyse, Amdek & Link, Hyundai
Special Value-Added Services: We offer technical support on all merchandise that we carry. We offer a 90-day warranty on our merchandise as well. We also have a return policy for all our merchandise.

Chiotec Inc
Store manager: Ken Liao
3048 Scott Blvd
Santa Clara, CA 95054
408-986-8998 Fax:408-986-1546
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Everex, TEAC, Artisoft

CompuLAN Technology, Inc
Store manager: Christine Fisk
180 Charcot Ave
San Jose, CA 95131
408-922-6888 Fax:408-954-8299
Areas of Specialty (and In-House Specialist): Complete LAN Solutions
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, Novell NetWare, PC/TCP Microsoft, LAN Manager.
Top-Selling Brands in 1991: CompuLAN
Special Value-Added Services: Toll-free number to order, complimentary technical support, 2-year full warranty on interface cards, co-op sales and technical product training are arrangeable.

Comp USA—Santa Clara
Store manager: Blake Wolff
3561 El Camino Real
Santa Clara, CA 95051
408-554-1733/408-554-9772 Fax:408-345-4161
Areas of Specialty (and In-House Specialist): DOS Applications; Macintosh Applications
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Varies by store
Special Value-Added Services: Fully trained technical staff to provide phone support and in-store repair with many manufacturers. Various training classes available at selected locations, satisfaction guaranteed.

Computer Accessories Plus
Store manager: L. Fung
1630 Oakland Rd, Ste A204-1
San Jose, CA 95131
408-452-0241 Fax:408-452-0241
Areas of Specialty (and In-House Specialist): Computer/Printer Accessories
Special Value-Added Services: Ribbons reinked.

Computer Art
Store manager: Tim Tran
424 S Main St
Milpitas, CA 95035
408-946-7852 Fax:408-946-7892
Areas of Specialty (and In-House Specialist): Technical Support (Tim); Sales (Tim, Kevin, Jay); Service (Tim, Kevin, Jay).
Operating Systems Supported: MS-DOS, OS/2, Amiga, UNIX/XENIX
Top-Selling Brands in 1991: Intel, Seagate, Conner
Special Value-Added Services: We offer quality products, guarantee lowest price, and superb technical support and service.

Computer Literacy Bookshops, Inc
20100 Stevens Creek Blvd
Cupertino, CA 95014
408-973-9955
Areas of Specialty (and In-House Specialist): Electronics/Computers Books
Top-Selling Brands in 1991: Prentice-Hall, Addison-Wesley, Microsoft Press
Special Value-Added Services: Unmatched selection, locator service, back orders, reservations, textbooks, national and international shipping, new book bulletin newsletter, and events series.

Computer Literacy Bookshops, Inc
2590 N. First St
San Jose, CA 95131
408-435-1118 Fax:408-435-0895
Areas of Specialty (and In-House Specialist): Electronics/Computers Books
Top-Selling Brands in 1991: Prentice-Hall, Addison-Wesley, Microsoft Press
Special Value-Added Services: Unmatched selection, locator service, back orders, reservations, textbooks, national and international shipping, new book bulletin newsletter, and events series.

Computer Market Place
Store manager: Robert Kushner
16175 Monterey Rd, #4
Morgan Hill, CA 95037
800-800-5600 Fax:408-779-1374
Areas of Specialty (and In-House Specialist): Trade Show Promoter (Robert Kushner).
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Special Value-Added Services: Computer trade shows for exhibtors to sell their products and services in a marketplace arena.

Computer Mart
Store manager: Oliver Nguyen
2577 N. First St
San Jose, CA 95131
408-456-6915 Fax:408-456-0888
Areas of Specialty (and In-House Specialist): PC; LAN; Consulting.
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Kimpsion, Hokkins, Malab
Special Value-Added Services: Fast service, 1-year warranty parts and labor; 7-day return, telephone or in-house support.

The Computer Place Tech
Store manager: Richard Ma
1800 Wyatt Dr, Ste #4
Santa Clara, CA 95054
408-980-8628 Fax:408-980-1587
Areas of Specialty (and In-House Specialist): Hardware (Richard Ma); Network (James Chu); Software (Teddy).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: TEAC, Conner, Relisys
Special Value-Added Services: Computer wholesale, maintenance, networking, and software training.

Consolidated Business Systems
Store manager: Doug Hulme
2962 Scott Blvd
Santa Clara, CA 95054
408-986-8704 Fax:408-986-0540
Areas of Specialty (and In-House Specialist): LAN; Wide Area Networks; Connectivity.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Special Value-Added Services: Needs analysis and consulting, computer hardware and software, complete installation, training and support, maintenance and service, data archiving backup.

Convex Resources, Inc
Store manager: Armin Majer
984 Hanson Ct
Milpitas, CA 95035
408-263-6440 Fax:408-263-1263
Areas of Specialty (and In-House Specialist): Netware (A Majer); LANtastic (A Majer)
Operating Systems Supported: MS-DOS, Netware.
Top-Selling Brands in 1991: Everex, NEC, Toshiba
Special Value-Added Services: 48-hour burn-in, unlimited 1-year tech support, Everex service center.

Copo Info Systems America
Store manager: Lynda Chang
2077 O'Toole Ave
San Jose, CA 95131
408-943-9007 Fax:408-943-1004
Areas of Specialty (and In-House Specialist): Novell Network (Abe Zakkaak/Ken Xing); UNIX SCO, Interactive (Lynet Chow/Ken Xing); UNIX Open DeskTop (Bryce Bertelino/Ken Xing).
Operating Systems Supported: MS-DOS, UNIX/XENIX, Sim O/S.
Top-Selling Brands in 1991: Copo Systems, Network Solutions
Special Value-Added Services: Lifetime on labor, 2 years on parts, in-store repair warranty. Service & maintenance contracts available.

Corporate Triangle, Inc
Store manager: Clare Sham
1350 Ridder Park Dr
San Jose, CA 95127
408-453-8310 Fax:408-441-8825
Areas of Specialty (and In-House Specialist): Network (Tony); DOS (Bruce); VMI 386 (Jimmy).
Operating Systems Supported: MS-DOS, VMI 386.
Top-Selling Brands in 1991: Qume, TEAC, Conner

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Complete Custom Systems with 40MB Hard Drive for as little as

286 $591 386SX $728 386 $819 486 $1219

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PICK ONE ITEM IN EACH CATEGORY FOR YOUR SYSTEM:

MOTHERBOARDS

286-12MHz	$67
286-16MHz	79
286-16MHz, NEAT	217
286-20MHz	89
286-20MHz, NEAT	235
286-25MHz	125
386-16SX	199
386-20SX	225
386-25MHz Non-Cache	299
386-33Mhz 64K Cache	415
486-25MHz 64K Cache	689
486-33MHz 64K Cache	769

MEMORY

1MB	From $40-58
2MB	From $80-100
4MB	From $160-200
8MB	CALL
16MB	CALL

*Prices subject to change

CONTROLLER

IDE F'H	$13
IDE F/H 2S 1P	24
MFM 2F/2H 1:1	42
RLL 2F/2H 1:1	65
PER STORE 180-16	199
IDE 2F/2H Caching, 0K	350

CASE/POWER SUPPLY

Standard AT/DT	$80
Deluxe AT/DT	92
Mini-Tower	75
Mid-Tower	99
Full Tower	127

KEYBOARD

101 Enhanced	$27
Keytronics 101	42
Maxiswitch 101	34
Focus FK2001	44
Focus FK5001	66

HARD DRIVE

40MB IDE	*194
40MB MFM	245
60MB RLL	265
100MB IDE	295
120MB IDE	359
200MB IDE	599

VIDEO CARD

Monochrome	$12
CGA-Std Color	17
VGA	62
Super VGA	89
TSENG 4000 VGA	105

All special pricing in this section is good for complete system purchase only as outlined on system worksheet.
Note: Prices are subject to change without notice.

FLOPPY DRIVE

TEAC 360K	$58
TEAC 720K	58
TEAC 1.2MB	58
'TEAC 1.44MB	56
SONY 1.44MB	56

MONITOR

12" MONO	$82
14" MONO	98
14" VGA	245
14" Super VGA	305
16" Super VGA	1047

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DOS OR INTEGRATED SOFTWARE W/ EACH SYSTEM PURCHASE

- Word Processor
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System Worksheet

Category
Motherboard ______________ $ ______
Memory ______________ $ ______
Case/Power Supply ______________ $ ______
Keyboard ______________ $ ______
Floppy Drives A: ______________ $ ______
B: ______________ $ ______
Controller ______________ $ ______
Hard Drive ______________ $ ______
Video Card ______________ $ ______
Monitor ______________ $ ______
I/O Card 2 Serial, 1 Parallel $ ______
DOS $ FREE
Assemble, Test, & Burn-In $ 25
Total $ ______
Plus Tax, Shipping & Handling where applicable

HARD DRIVES

3.5 Hard Drive Priced without 5.25 Mounting Kit

40MB, IDE, CP-3000, 28ms 3.5	*194
20MB, MFM, SEAGATE ST-225 w/Ctlr, 5.25	189/219
40MB, MFM, SEAGATE ST-251-1,5.25, 28ms	245
100MB, TEAC, SD 3105	295
40MB, IDE, WD 93044, 3.5, Limited Qty.	169
44MB, IDE, SEAGATE ST-157A, 3.5, 19ms	194
60MB, IDE CP-30064, 3.5, 19ms	220
60MB, RLL SEAGATE ST-277R-1, 5.25, 28ms	265
80MB, IDE WD 200 3.5, 19ms	282
85MB, SCSI, SEAGATE ST-296N, 5.25, 28ms	310
120MB, IDE CP-30104, 19ms	359
120MB, IDE QUANTUM LP 240, 19ms	359
200MB, IDE CP-3204, 19ms	599
212MB, IDE ST-1239A,19ms	635

CALL FOR PRICING ON
HIGHER CAPACITY DRIVERS

FLOPPY DISK DRIVES

TEAC 360K, 5.25, FD55BR, Beige	58
TEAC 1.2MB, 5.25, FD55GFR, Beige	58
TEAC 720K, 3.5, FDD235F, w/5.25 Kit, Beige	58
TEAC 1.44MB, 3.5, FDD235HF, w/5.25 Kit, Beige	56
SONY 1.44MB, 3.5, MPF17W52D, w/ Kit, Beige ("Best")	56

VIDEO BOARDS

MONOCHROME GRAPHIC Card LPT1 (GOOD)	12
MONOCHROME GRAPHIC Card, LPT1-2 or 3 (Better)	17
DUAL MONO/COLOR GRAPHICS Card	17
CGA, Color Graphics Adapter w/Printer Port	17
VGA REALTEC, 256K Only, 8 Bit, 800 x 600	38
TRIDENT 1024 x 768 w/256K, Exp to 512K	62
VGA Oak Chip Set, 800 x 600, 16 Bit, 256K Only	39
VGA Oak Chip, 512K, 1024 x 768, 16 Bit	53
VGA TRIDENT MTV-8908, 1MB, 1024 x 768, 256 Clr, Non-Inter	89
S/VGA TSENG 4000 CHIP, 1024 x 768, 1MB FAST VGA	105

VIDEO MONITORS

Mono 12" Monochrome, 720 x 350, Amber	82
Mono 14" 720 x 350, Amb/Wht, Flat Screen	89
VGA 14" VIEWSONIC V2, 640 x 480, 29 Dot, Analog, T/S	312
VGA 14", 640 x 480, 39 Dot	245
VGA 14" VIEWSONIC V4, 1024 x 768, 8514/A, 28 Dot	345
VGA 14" 1024 x 768, 28 Dot Pitch'	305
VGA VIEWSONIC V5, 14", 1024 x 768, Non-Int	675
VGA 14" VIEWSONIC V6, 1024 x 768, 30-50Khz, .28 NI	435
VGA 14" OPTIQUEST 1000, .28, 1024 X 768, Non-Int, VESA 72Hz	435
VGA 15" OPTIQUEST 2000, .28, 1024 X 768, Non-Int, Flat Scr	565
VGA 17" VIEWSONIC V7, .28, 1280 X 1024, Non-Int	1259
VGA 16" NANAO 9070U, .28, 1024 X 768, Non-Int	1047

CHIPS

64K, 150ns, 1 x 64K DRAM (4164)	75
64K, 120ns, 1 x 64K DRAM (4164)	85
64K, 100ns, 1 x 64K DRAM (4164)	.95
64K, 120ns, 4 x 64K DRAM (4464)	1 50
64K, 100ns, 4 x 64K DRAM (4464)	1 85
256K, 150ns, 1 x 256K DRAM (41256)	.85
256K, 120ns, 1 x 256K DRAM (41256)	.85
256K, 100ns, 1 x 256K DRAM (41256)	1.20
256K, 80ns, 1 x 256K DRAM (41256)	1.35
256K x 4, (44256) 80ns	4.95
1MB 80ns, 1 x 1MB, DRAM (41000)	5 10
256K 80ns, SIM/SIP x 9	14
256K 70ns, SIM/SIP x 9	15
1MB 80ns, SIM/SIP x 9	48
1MB 70ns, SIM/SIP x 9	49

MEMORY PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

POWER SUPPLIES

DESKTOP OR VERTICAL AVAILABLE, PLEASE SPECIFY

150w, Standard Size for PC/XT, (DESKTOP only) (GOOD)	31
150w, Standard Size for PC/XT, (DESKTOP only) (Better)	35
200w, Standard Size for PC/XT, (DESKTOP only)	42
200w, Standard Size for PC/XT, (DESKTOP only) UL Listed	45
230w, Standard AT Case or Full Size Vertical Cases	42
250w, Standard AT DESKTOP only	47
220w, Standard AT Case or Full Size Vertical, UL Listed	52
300w, Standard AT Case or Full Size Vertical, UL Listed	83
230/200w MINI PS for MINI DT or MINI/MID Size Tower/UL	42/47
POWER SUPPLY for LCD Lunch Box Case, 200w	149
POWER SUPPLY for Gas Plasma Case, 180w	189

MOTHERBOARDS

XT-12MHz Turbo, 0K, 8 slots, to 1MB, 1/2 size	39
SUPER XT-31MHz, 286 Based, 8-8 bit slots,0K, to 1MB Supports Shadow RAM for Video & BIOS, Auto Sys Config	59
AT-286-12/16/20 MHz SC/2MB,0K, 8 slots, Exp to 2MB	67/79/89
AT-286-25 UMC/SOL, 6 slots, AMI, to 4MB	129
AT-286-16 VLSI, 0K, 8 slots, Exp to 4MB, 2/3 Size (MS)	106
386SX-25 OPTI BIOS 8 Slots	199
AT-386-16/20 SX, AMI BIOS, 8 slots	199/225
AT-386SX-16 UMC/Intel, 6 slots, AMI, Mini-Baby	159
AT-386-25, Non Cache, AMI BIOS, 8 slots "Great Seller"	299
AT-386-33, 64KC/128KC, AMI BIOS (C & T)	425/475
AT-486-25, 64KC/128KC, AMI BIOS, (C & T)	425/475
AT-486-25, 64K Cache, 8 slots x 16 bit, ETEQ CHIP, to 32MB	689
AT-486-33, 64K Cache, Exp to 256K, Exp to 32MB(ECS)	739
AT-386-33, 256KC, AMI BIOS (ASUS) ISA	799
AT-EISA 486-33 ASUS, Full Size, 64K Cache Exp to 256K 8 slots (AS)	1370

DOS OPERATING SYSTEMS

MS DOS 3.3 w/GW Basic, OEM Version	47
MS DOS 3.3, Actual Microsoft	68
MS DOS 4.01 w/GM Basic, OEM Version Slim	68
MS DOS 4.01, Actual Microsoft Slim	82
MSDOS 5 0/OEM MS DOS 5.0	77·49
DR DOS 5.0	36

I/O & MULTIFUNCTION

XT SERIAL Card, 2 Ports, 2nd Port Opt COM 1 & 2	10
XT SERIAL Card, 2 Ports, 2nd Port Opt COM 1-4	13
XT SERIAL Card, 4 Ports, COM 1-4, 2 Ports Install	61
XT 2nd SERIAL Port Chip & Cable Set	5
I/O PLUS Clk, Cal, Par, Se, Game, 2nd Serial Opt.	35
CLOCK Card, Calendar and clock only: fits into a slot	9
CLOCK Slotless, no-slot clock: fits in a prom socket	29
384K MULTI I/O w/Floppy Controller:Clk, Cal, Par, Ser, Game	55
SUPER MULTI I/O w/Floppy Ctlr - 360K, 720K, 1.2MB and 1.4MB FDD: Cal, Clk, Par, Ser, Game	42
XT/AT PARALLEL PRINTER Port, Sets to LPT 1 only	8
XT/AT PARALLEL PRINTER Port, Sets to LPT1, 2, or 3	9
XT/AT GAME CARD, 2 Ports	8
AT SERIAL Card, 2 Ports, 2nd Port Opt. COM 1-4	15
AT SERIAL Card, 4 Ports Installed COM 1-8	66
2nd SERIAL Port Chip & Cable Set	7
AT I/O #1, 1 Ser, 1 Para, 1 Game. COM 1-4/LPT 1-2	11
AT I/O #3, 2 Ser, 1 Para, 1 Game. COM 1-4/LPT 1-2	13
AT I/O #4, 2 Ser, 2 Para COM 1-2/LPT 1-3	22

MODEMS/FAX CARDS

1200 External, Special Limited Quantity, GVC/HISLAND	45
2400 OEM with Software	59
2400 Quicktel Int. Modem - 2 yr Factory Warranty, USA	62
2400 OEM ZOOM, Internal with PROCOMM Software	49
2400 OEM ZOOM, External with PROCOMM Software	69
2400 Pocket Modem for Portables, GVC/HISLAND	89
ZOFAX 96/24, Send/Receive Fax at 9600 bps and 2400 bps Data Modem Comes with Bil-Fax Software. Auto Rec/Print Fax, Flip or Rotate Fax Picture. Time Schedule Transmissions. Background Receiving and more	89

MEMORY PRODUCTS

XT 576K MEMORY EXPANSION CARD (Exp to 640K only)	18
XT 384K MULTI I/O CARD, 0K, 1 Ser, 1 Par, 1 Game, Cal, Clk	54
XT MEMO 2000X, EMS CARD for XT, Exp to 2MB	83
AT 286 EVEREX RAM 3000, 0K, 3MB Max, Uses 256K DRAM	89
AT 286 EVEREX RAM 8000, LIM 4.0 in Hardw., Direct Mem. Access	199
AT 286 EVEREX RAM 10000, 0K, 10MB Max, Exp 2MB Increments	149

MOUSE•TRACKBALL•JOYSTICK

BTC 3 Button Serial Mouse. w/Driver Software	15
X-30s Streamline, 3 Button Serial/w/Paint SW	22/29
GENIUS GM-D321, 2 or 3 Button Mode, New Body Design	29/33
LOGITECH MOUSEMAN 3 Button, Serial/BUS	68/75
Z-NIX SUPER CORDLESS MOUSE, Res 50-400 DPI	66
TRACKBALL-QTRONIX MIGHT TRACKBALL	36
JOYSTICK MAGIC 909 for IBM or Compatibles	15

CASES

XT SLIDE, STD PC/XT Style 4 Exp Dr. Bays	24
XT/AT Like, 2 Exp/2Snt Dr. Bays, LED/Key/Turbo Butt	27
AT STD DESKTOP CASE, 3 Exp 5.25/2 Int Dr. Bays	38
AT MINI-DESKTOP, 230W, 3x5.25, 1x3.5, 1 Int 3.5	75
AT DELUXE DESKTOP CASE, 2+Exp 5.25/2 Int, Top Quality/Dig	49/59
AT VERTICAL/T Full Ht, 220w PS, 6 Exp 5.25 Dr. Bays/Dig	127
AT VERTICAL/T Full Ht, 220w PS, 4 Exp 5.25/2 Int, w/Dig	135
AT MID SIZE VERTICAL, 230w PS, 3x5.25, 2x3.5, 1x3.5 Int, Dig	99
AT MINI SIZE VERTICAL, 200w PS, 2x5.25, 2x3.5	75

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CONTROLLERS

Unless otherwise noted, all controllers supplied with cables

XT, Floppy Disk Controller, FDC 2, 260K/720K	11
XT/AT, FDC+, Controls 360K/720K/1.2MB/1 44MB	19
XT/AT, SUPER FDC+, 4 Drives, All Types	26
XT/AT, COMPATICARD II, Co exist, 2 Drives, All Types	69
XT/AT, COMPATICARD IV, 4 Drives, All Types, Co exist	99
XT, MFM LONGSHINE 6210, 2 Hard Drives	39
XT, MFM,WD XT GEN Clone	34
XT, RLL, DTC 5160	52
XT/AT, SCSI, SEAGATE ST-01/ST-02	43
XT, LONGSHINE 6220, 8 Bit, 2 Floppy/2 Hard Dr.	64
AT, IDE (AT BUS) Hard/Floppy	13
AT, IDE (AT BUS) Hard/Floppy, 2 Serial, 1 Parallel	24
AT, MFM, WA 6M, 16 Bit, 1.1, 2 Hard/2Floppy Dr.	42
AT, MFM, DTC 7280, 16 Bit, 1.1, 2 Hard/2 Floppy Dr.	52
AT, RLL DTC 7287, 16 Bit, 1.1, 2 Hard/2 Floppy Dr.	65
AT, RLL, WD 1006V-SR2 Clone, 1:1, 2 Hard/2 Floppy Dr.	57
PERSTOR PS180 16F, 2H/2 F, Increases Dr. Storage 90%	187
ESDI w/64K Cache MC-1165A, Out-Performs any controller in its price range and more, 2 Fl/2 Hd Dr., 1:1, up to 40% cyl	105
ULTRASTORE ULTRA-12F ESDI Controller, 1:1, Cache on Board, Co exist with other Controllers, Allows Disk Duplexing, Novell NETWARE 386 Compatible, Controls Floppy Drive, 32K Cache	153
AMS 1100 SM4, MFM, Controls 4 Floppy/2 Hard Dr.	50
AMS 1100 SR4, RLL, Controls 4 Floppy/2 Hard Dr.	62

KEYBOARDS

101 KEY KEYBOARD Tactile/Click, 12 Function Keys	33
101 KEY KEYBOARD Non-Click	27
101 KEY KEYBOARD KEYTRONIC (Narrow Ent)	42
101 KEY KEYBOARD KEYTRONIC PLUS (Lg Ent)	42
101 KEYBOARD, Maxi-Switch "a Best Seller"	34
101 NTC Special, 12 Function Keys Left Side	43
FOCUS FK-2001, 101 ENH, w/Solid Dust Cover	44
FOCUS FK-5001, 12 Function Keys both top & Left Side, Calculator, 8 Arrow Keys, Templates	66
KT-30 KEYBOARD w/TRACKBALL, Dr Halo Scr/Bus	75/85

Certain items are special order — call to verify stock availability.

Call or write for shipping details. A $3 handling charge is applied to all orders plus a minimum of $5 freight. GEMS will ship UPS, Federal Express or any other recognized freight service. $7 COD charge applied to all COD orders.

- *Software, Books and All Training Products are Non-Refundable. GEMS to replace any defective software or training products.*
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- *One Year Warranty - All Prices are subject to change without notice.*
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- *RMA Number Required for Returns.*
- *Certain items are special order: call to verify stock availability.*

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Northern California

COMPUTER RESELLERS

continued

Data Chain, Inc
Store manager: Peter Chen
3350 Scott Blvd, #9B
Santa Clara, CA 95054
408-988-4677 Fax:408-988-3480
Areas of Specialty (and In-House Specialist): IBM-Compatible Computer; Computer Motherboard, Mouse
Operating Systems Supported: MS-DOS, Novell.

Data Field
Store manager: Danny Huynh
1033 Pecten Ct
Milpitas, CA 95035
408-946-6444 Fax:408-946-9325
Areas of Specialty (and In-House Specialist): Winchester/Floppy disk drive repairs.

De Anza Systems Inc
Store manager: Tony Chen
10675 S. De Anza Blvd, #6
Cupertino, CA 95014
408-252-8899 Fax:408-252-8934
Areas of Specialty (and In-House Specialist): System Maintenance (Aaron Anderer); Technical Support (John)
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Panasonic, Morse, Spritz
Special Value-Added Services: 1-year warranty on parts and labor, technical support, system maintenance, LAN special (Novell, LANtastic, Q-Net).

Digital Intention
Store manager: Richard Wood
425 E. St James
San Jose, CA 95112
408-287-5735 Fax:408-287-5735
Areas of Specialty (and In-House Specialist): Paradox, Clipper, SQL, Enable OA (Richard Wood); C, Assembler, Basic, FoxPro Applications (Brad Mathews)
Operating Systems Supported: MS-DOS
Special Value-Added Services: Custom hardware systems design, training, hardware & software support, consulting, custom applications programming.

Dolphin Computer Systems
Store manager: Robert Morrisette
2640 Shawvale Wy
San Jose, CA 95132
408-262-0903
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: MC Systems, Panasonic, Laser
Special Value-Added Services: IBM compatible and Mac rentals. Training on all PC systems. Leasing available. Free delivery and setup.

Domino Computer Self-Service Centers—Campbell
Store manager: Denese
486 E. Campbell Ave, Ste 102
Campbell, CA 95008
408-374-7477 Fax:408-374-3240
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Milpitas
Store manager: Raymond
976 Hanson Ct
Milpitas, CA 95035
408-946-6991 Fax:408-946-0312
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Edimax Computer Co
Store manager: Danny Hwang
3350 Scott Blvd, Bldg 9A
Santa Clara, CA 95054
408-496-1105 Fax:408-980-1530
Areas of Specialty (and In-House Specialist): Local Area Network
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Edimax LAN Boards
Special Value-Added Services: Technical Support

Empac Technology, Inc
Store manager: Vinny To
87 E. Santa Clara St
San Jose, CA 95113
408-280-0952 Fax:408-280-1013
Areas of Specialty (and In-House Specialist): Business Software (John Yu); PC Hardware (Vinny To); Service (Phillipe).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: IBM Clone, Panasonic Printer
Special Value-Added Services: Good service, quick response, and high-tech support—these three services our business offers to our customers.

Gems Computers, Inc
Store manager: Fred Carey
2115 Old Oakland Rd
San Jose, CA 95131
408-456-9300 Fax:408-473-0826
Areas of Specialty (and In-House Specialist): Complete line of PC Clone products (Jean Rembert/Fred Carey).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: MS-DOS, ECS Motherboards, Everex
Special Value-Added Services: 1-year warranty, 30-day money-back, for corporate accounts free on-site service for systems purchased from Gem's for 1 year, on-site service on items not covered by warranty @ $65 hr.

Guenther Computer Products
Store manager: Graham Kenville
312 Locust St
Santa Cruz, CA 95060
408-458-9404 Fax:408-458-3428
Areas of Specialty (and In-House Specialist): DOS Systems (Ray Shaffer, Graham Kenville, Glenn).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Panasonic, Samsung, TEAC
Special Value-Added Services: Service-oriented, 90-day replacement warranty. We support our own systems and anyone else's DOS machines.

Hi-Tech USA
Store manager: Daniel Wang
1558 & 1562 Centre Pointe Dr
Milpitas, CA 95035
408-262-8772 Fax: 408 262-8772
Areas of Specialty (and In-House Specialist): 486 Systems (Lu); 386 Systems (Jessie); 286 Systems (Joe).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 486, 386, 286
Special Value-Added Services: 15-day money-back guarantee, 1-year parts, 2-year labor warranty. Excellent tech support.

ICS Computer
Store manager: Erick Lin
900 S. Winchester Blvd, Ste 5
San Jose, CA 95128
408-241-9787 Fax:408-241-9789
Areas of Specialty (and In-House Specialist): UNIX(Erick Lin); DOS/Windows (Erick Lin); Networking (Erick Lin).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 486-33, 386-33, 386SX

Infinity Microsystems, Inc
Store manager: Andrew Gong
1630 Oakland Rd, Ste A204-1
San Jose, CA 95131
408-441-6888 Fax:408-441-6889
Areas of Specialty (and In-House Specialist): IBM Compatible System (Willson Gong).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Sony, Impression, Media
Special Value-Added Services: 1-year labor and parts warranties, on-site service.

JDR MicroDevices
Store manager: Dan Urioste
1256 S. Bascom Ave
San Jose, CA 95125
408-947-8234
Areas of Specialty (and In-House Specialist): Clones (Matt Vernon); PC Upgrades (Jamie Brown); ICs & Memeory (Tim Hebert).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: NEC, Seagate, Intel
Special Value-Added Services: Sales & service, tech support on-site 7 days a week, knowledgeable sales staff. 30-day money-back guarantee, 1-year warranty on parts & labor, return policy.

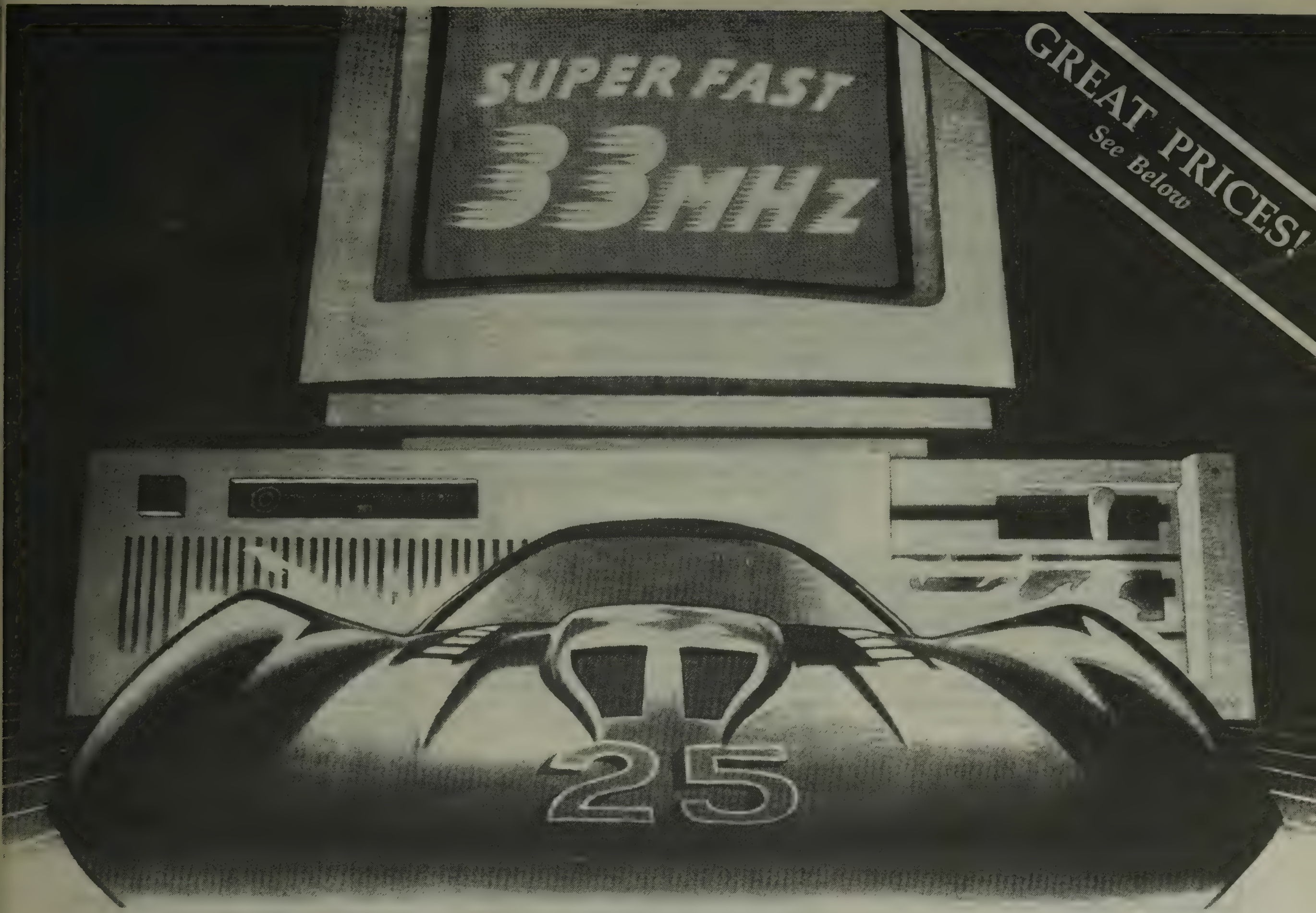
Jemini Electronics
Store manager: Randall Morser
3448 De La Cruz Blvd
Santa Clara, CA 95054
408-727-9986 Fax:408-727-7687
Areas of Specialty (and In-House Specialist): CAD Workstation (Andy Kim); Image Processing (24-Bit Color) (Randy Morser); X-Window Workstation (Jay Kim).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Exp 486 CAD Workstation, HP Plotters, #9 Graphics Card
Special Value-Added Services: Custom-built CAD workstation with customer-provided CAD S/W. Large selection of CAD H/W, graphics equipment. Customer can actually compare each CAD/graphics equipment performance.

Legend Microsystem Corp. (Primax Inc)
Store manager: Mike
912 Sage Ct
Cupertino, CA 95014
408-252-1688/408-739-2581 Fax:408-720-1102
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: IBM Clone Computer
Special Value-Added Services: Service: Delivery, installation, upgrade, and repair. Support: Free phone technical support/consultation. Networks: Design and configuration, install, maintain networks.

Longshine Computer
Store manager: Christopher Yang
2013 N. Capitol Ave
San Jose, CA 95132
408-942-1746 Fax:408-942-1745
Areas of Specialty (and In-House Specialist): LAN (Johnny Lau); Mass Storage Controller (Joseph Hu); PC to Mid-Range Connectivity (John Cherng).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Longshine, Novell
Special Value-Added Services: 1-year full warranty on products we sell. Excellent customer support.

MaxR Technologies, Inc
Store manager: Philip Wong
1700 Wyatt Drive, Ste #12
Santa Clara, CA 95054
408-496-6297 Fax:408-496-1063
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Own
Special Value-Added Services: 2-year warranty, free lifetime technical support, 48-hour RMA turn around. 30-day money-back guarantee.

MCC Systems, Inc
Store manager: Frank Chen
1035 Saratoga-Sunnyvale Rd, Ste 4B
San Jose, CA 95129
408-255-4471 Fax:408-255-4348
Areas of Specialty (and In-House Specialist): UNIX/XENIX, C (Eric); DOS, C (X Mu); OS/2 (John).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Micronics, Microsoft, Conner



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- 386-40MHz: **add $50**

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- SH VGA SYSTEM: **$2095**

MICRO 386-25MHz

- 386-25MHz CPU, 32 bit
- 4MB RAM memory
- 1.2MB Teac floppy disk drive
- 84MB Fast hard drive 18(ms)
- Serial/Parallel port
- Enhanced keyboard
- 64K cache option

- BASIC SYSTEM: **$1095**
- S VGA SYSTEM: **$1495**
- SH VGA SYSTEM: **$1895**

MICRO CACHE 486-33MHz

- 80486-33MHz 64K cache
- 4MB RAM memory
- Hard/Floppy disk controller
- 1.2MB Teac floppy drive
- 125MB fast hard drive 18(ms)
- Serial/Parallel port
- Enhanced keyboard
- 486-33MHz EISA option
- BASIC SYSTEM: **$1495**
- S VGA SYSTEM: **$1895**
- SH VGA SYSTEM: **$2295**

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BASIC SYSTEM: **$695**
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B. Micro 486SX-20MHz
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• ATI Graphics Ultra	$ 499
• NEC 3Ds Monitor (1024x768) 14"	$ 549
• Seiko VGA Monitor (1024x768) 14"	$ 479
• S VGA Monitor (1024x768) 14"	$ 299
• Paradise VGA 1024i card (1024x768)	$ 199
• Seiko 1450 NI Monitor + Orchid ProDesigner II w/ 1MB	$ 699
• Micro 386SX-16MHz Motherboard	$ 199
• Micro 386SX-25MHz Motherboard	$ 299
• Micro 386-25MHz Motherboard	$ 399
• Micro Cache 386-40MHz Motherboard	$ 499
• Micro Cache 486-25MHz Motherboard	$ 699
• Micro Cache 486-33MHz EISA Motherboard	$1299

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Special Value-Added Services: Sell computers with service, support, warranties, training.

Micro Distribution Center
Store manager: Roger Wang
3320 Edward Ave
Santa Clara, CA 95054
408-492-9812 Fax:408-492-9539
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Goldstar Monitor, Chinon Floppy, Western Digital Hard Drive

MicroMatics
Store manager: Fred
4022 Shanj Ct
San Jose, CA 95127
408-926-4859 Fax:408-929-9176
Areas of Specialty (and In-House Specialist): Laser Printer Upgrades; Memory Upgrades
Operating Systems Supported: MS-DOS, Macintosh
Special Value-Added Services: Immediate return exchanges. All manufacturers warranties, discounted pricing.

Miracle Computers Inc
Store manager: Mary Cheng
780 Montague Expwy, Ste 202
San Jose, CA 95131
408-435-8177 Fax:408-435-8179
Areas of Specialty (and In-House Specialist): Multimedia (Larry Perea); Networking (Shawn Yuan)
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Panasonic, Microsoft, Conner peripherals
Special Value-Added Services: Printer service, 1-year warranty, 30-day return policy.

Monarch Computers
2191 El Camino Real
Santa Clara, CA 95050
408-248-9399
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: AST, Hewlett-Packard, Mylex
Special Value-Added Services: Repairs, warranty, serrvice, training, support.

MS Engineering
Store manager: Bruce Lee
10601 S. De Anza Blvd, Ste 214
Cupertino, CA 95014
408-257-4249 Fax:408-257-4398
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: 386-33, 486-25, 386-25
Special Value-Added Services: Networking CAD/CAM scientific engineering, desktop publishing.

OniTech Computer Services, Inc
Store manager: Davies Ononiwu
1790 S. Winchester Blvd, Ste 10
Campbell, CA 95008
408-370-6575 Fax:408-866-6509
Areas of Specialty (and In-House Specialist): Network Installation & Support (Davies Ononiwu); 4GL Application Dev (Davies John); UNIX Systems (Phil).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Special Value-Added Services: LAN design and installation, hardware and software support. Network installation and support, custom application development, sales and site planning, cable design and training. Finance and leasing, LAN administration.

PCS-86
Store manager: Ray Lyn
2798 B S. Bascom Ave
San Jose, CA 95124
408-559-1581 Fax:408-559-1581
Areas of Specialty (and In-House Specialist): DeskTop Publishing (Ray Lyn); Graphics (Ray Lyn)
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: Adobe Illustrator, Photo Shop
Special Value-Added Services: Mac Plus, Mac SE service/repair. 60-day warranty.

Prestige Computer, Inc
Store manager: Jason Nguyen
3248 Stevens Creek Blvd
San Jose, CA 95117
408-249-3398 Fax:408-249-3392
Areas of Specialty (and In-House Specialist): Novell Network (Omar Mousa).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX

Pro-America Systems, Inc
Store manager: Tina Cheng
1510 Montague Expwy
San Jose, CA 95131
408-428-0500 Fax:408-428-0659
Areas of Specialty (and In-House Specialist): Windows (David Lin).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Zoltrix, Supercom, MICC

Q2 Service, Inc.
Store manager: Koni Matsuura
161 Nortech Prkwy
San Jose, CA 95134
800-745-8300 Fax:408-263-0571
Special Value-Added Services: Q2 specializes in PC monitor repair on all major brands from Aamazing to Zenith. We offer a 72-hour turnaround time on most repairs, plus 120 days of warranty.

RT Computers
Store manager: Ray Tetreault
1630 Oakland Rd, Ste A112
San Jose, CA 95131
408-437-3063 Fax:408-437-1156
Areas of Specialty (and In-House Specialist): DOS (Ray Tetreault); LAN Networks (James Jaycoh)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: RT486, RT386/33, RT386SX16
Special Value-Added Services: RT offers 1-year parts and labor warranty. On-site is available, lifetime phone support when a system is purchased from RT.

Santa Clara Components International
Store manager: TJ Kaler
1630 Oakland Rd, Ste A111
San Jose, CA 95131
408-441-6100 Fax:408-441-0133
Areas of Specialty (and In-House Specialist): Memory & 1C Chip sale
Top-Selling Brands in 1991: Samsung, Intel, Toshiba

Soft Touch
Store manager: Bonnie Mercadante
1900 Stratford Dr
Milpitas, CA 95035
408-263-9225
Areas of Specialty (and In-House Specialist): PEST Control Business Manager (Bonnie Mercadante).
Operating Systems Supported: UNIX/XENIX
Special Value-Added Services: We provide installation, training, and support services for the PEST Control Business Manager software.

Spectron Systems
Store manager: Ron Lefevre
3439 Calico Ave
San Jose, CA 95124
408-748-8611
Areas of Specialty (and In-House Specialist): Surplus liquidation of name-brand computer products (Ron Lefevre).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: IBM, Compaq, NCR
Special Value-Added Services: 30-day money-back guarantee.

Storage System Engineering Service
Store manager: Kenny Wong
3350 Scott Blvd., Bldg 19, Ste 1902
Santa Clara, CA 95054
408-727-6040 Fax:408-727-6042
Areas of Specialty (and In-House Specialist): Hardware & Networking (James Chang); Software Programming & Application (Dede Gunawan)
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Transdata, SSES Portables, Microscience
Special Value-Added Services: Full product warranty, in-house technical support, direct phone service distributor and dealer, product training program.

Sysper Technologies, Inc
Store manager: Abdul Jaka
1590 Oakland Rd, #B113
San Jose, CA 95131
408-441-6604 Fax:408-441-6609
Areas of Specialty (and In-House Specialist): CAD Graphics (Abdul Jaka).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: ViewSonic, IDEK, Orchid
Special Value-Added Services: Lifetime toll-free tech support.

System V
Store manager: Bill Gitow
3806 Stevens Creek Blvd
San Jose, CA 95117
408-866-0343 Fax:408-241-0371
Areas of Specialty (and In-House Specialist): PC UNIX (Bill Gatow); PC UNIX LANs (Chris Driggett); FrameMaker (Bill Gitow).
Operating Systems Supported: UNIX/XENIX
Top-Selling Brands in 1991: SCO, Stallion, FrameMaker
Special Value-Added Services: Sales, support, training, consulting.

Systender International Corp
Store manager: Ping Lu
2900 Corvin Dr
Santa Clara, CA 95051
408-732-1990 Fax:408-732-7030
Areas of Specialty (and In-House Specialist): UNIX/XENIX (Stanfor Morrison); AutoCAD (Stanfor Morrison); Prad (Stanford Morrison).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, CPM.
Special Value-Added Services: 1-year parts and labor warranty, on-site service (extra charge), extended warranty (extra charge).

Technolab
Store manager: Ken Kim
473 Sapena Ct, #23
Santa Clara, CA 95054
408-727-4011 Fax:408-727-4012
Areas of Specialty (and In-House Specialist): Repair Motherboards (Ken); Repair Power Supplies (Yang); Repair Monitors (Cho).
Operating Systems Supported: MS-DOS
Special Value-Added Services: If we cannot repair it, we do not charge.

Technoland, Inc
Store manager: Tony Huang
2960 Gordon Ave
Santa Clara, CA 95051
408-732-2244 Fax:408-732-4664
Areas of Specialty (and In-House Specialist): Networks (Wayne Huang); Repair (John Huang/Wayne Huang)
Operating Systems Supported: MS-DOS, OS/2
Top-Selling Brands in 1991: Fujitsu, Panasonic, Everex
Special Value-Added Services: 1-year warranty on parts and labor. 3-day turnaround.

Titan Intelligent Systems, Inc
Store manager: Willy Guo
1037 Pecten Ct
Milpitas, CA 95035
408-946-4658 Fax:408-946-4659
Areas of Specialty (and In-House Specialist): PC Hardware Consulting (Willy Guo); LAN (Vincent Chang); Application Software (Jenny Lee).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: TIS, Conner, Western Digital
Special Value-Added Services: Customized

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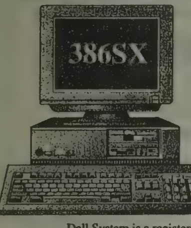

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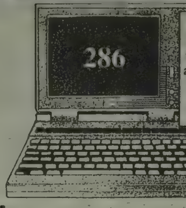

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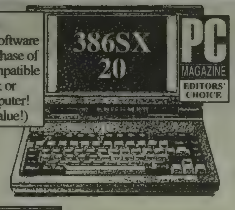

DELL

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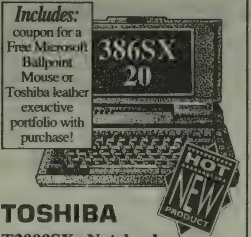

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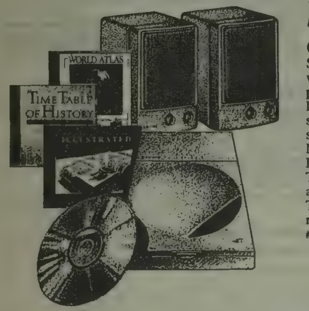

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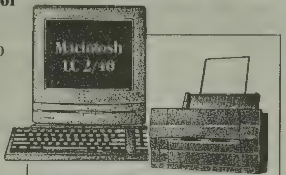

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BJ-10ex Bubble Jet Printer
A portable with great resolution! 100 cps draft/NLQ speed, 80-column, 6 fonts. #420994

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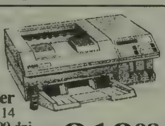

EPSON

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4. PC Tools Deluxe 7.1	179^{00}	109^{99}
5. Procomm Plus 2.0	119^{00}	68^{99}
6. Norton Utilities 6.0	179^{00}	124^{99}
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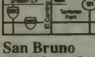

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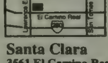

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Areas of Specialty (and In-House Specialist): SUN Workstation Memory (Vaughn Nguyen); PCs + Notebook Memory (Michael Farnia); Laser Printers Memory (OJ).

Tower Computer, Inc
Store manager: Tom Bui
1373 S. Bascom Ave
San Jose, CA 95128
408-288-6937 Fax:408-288-7120
Areas of Specialty (and In-House Specialist): MS-DOS (Victor Chu); Lotus, dBase, Excel (Jason Harmow); AutoCAD (John Long Dang).
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: MS-DOS
Special Value-Added Services: Service, training, support.

Tri-Sonix, Inc
Store manager: Jack Foster
6284-A San Ignacio Ave
San Jose, CA 95119
408-365-1400 Fax:408-365-1401
Areas of Specialty (and In-House Specialist): Networking (Jack Foster); Imaging (George Bielous)
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Tri-Sonix Brand, Jet RAM
Special Value-Added Services: Extended warranty.

UnigraFix
Store manager: Joe Beall
2680 Glen Doon Ct
San Jose, CA 95148
408-270-5048
Areas of Specialty (and In-House Specialist): Systems Integration/Engineering (Joe Beall); X-Windows & GUI Development (Joe Beall); Object-Oriented Graphics (Joe Beall).
Operating Systems Supported: MS-DOS, UNIX/XENIX
Top-Selling Brands in 1991: Micronics and other name brand products
Special Value-Added Services: Consulting; GUI design and programming; UNIX installation. Not a showroom. No inventory costs. Major vendor warranties on computer products.

USM Distributors
Store manager: Danny Catbagan
3070 Scott Blvd
Santa Clara, CA 95054
408-980-0602 Fax:408-980-0604
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: AMI, Micronics, Northgate
Special Value-Added Services: Complete computer repair. Extended warranties available.

Wentek Computer
Store manager: George Wen
3056-C Scott Blvd
Santa Clara, CA 95054
408-727-4362 Fax:408-727-5528
Operating Systems Supported: MS-DOS, UNIX/XENIX

Whole Earth Access Computers
Store manager: Alan Harris
3530 Stevens Creek Blvd
San Jose, CA 95117
408-554-8300 Fax:408-554-8362
Areas of Specialty (and In-House Specialist): Macintosh (Rick Holden).
Operating Systems Supported: MS-DOS, OS/2
Top-Selling Brands in 1991: Apple, IBM, HP
Special Value-Added Services: Service, training, support for DOS and Mac.

WIT
2073 O'Toole Ave
San Jose, CA 95131
408-433-0188 Fax:408-433-0318
Areas of Specialty (and In-House Specialist): 486-33 Computer
Operating Systems Supported: MS-DOS

Wolf Computer
Store manager: Don Wolf
105 N. Santa Cruz Ave
Los Gatos, CA 95030
408-354-1210 Fax:408-354-2287
Areas of Specialty (and In-House Specialist): Desktop Publishing (Steve Casperson); Multimedia and MIDI (Mike Clawson); AutoCAD (Todd Looney).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Hewlett-Packard, Apple, Everex
Special Value-Added Services: Wolf computer offers a full service and repair department, both on-site and in-house training services, and extended warranties and support programs.

MARIN

Blue Mountain Software
Store manager: Brad Pirrung
704 Hacienda Wy
San Rafael, CA 94903
415-472-1708
Areas of Specialty (and In-House Specialist): CAD & Graphics (Walt Melton); Project Management Software (Brad Pirrung)
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: AutoTrace DOS, Instaplan Project Mgt. Software, Micro Planner for Windows
Special Value-Added Services: Free technical support; 30-day money-back guarantee; free quarterly newsletter.

ComputerTime
Store manager: Fred Shepherd
999 Anderson Dr
San Rafael, CA 94901
415-459-8080
Areas of Specialty (and In-House Specialist): AutoCAD; Novell Networking; Training.
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: AST, Everex, Standard Technologies
Special Value-Added Services: We offer complete training and support. We are a full-service and authorized repair center.

Discount Computer Rent
Store manager: Glenn Davis
7 Mark Dr
San Rafael, CA 94903
415-499-9009 Fax:415-491-1613
Areas of Specialty (and In-House Specialist): Novell (Andy McLean); CAD/CAM (Glenn Davis); Rental (Greg Pankow).
Operating Systems Supported: MS-DOS, Macintosh
Top-Selling Brands in 1991: HP, Apple, Digital Technology
Special Value-Added Services: On-site service, consulting, rental, sales, leases, training.

Domino Computer Self-Service Centers—Marin
Store manager: Hai
757 Lincoln Ave, #30
San Rafael, CA 94901
415-453-8525 Fax:415-453-8586
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

MarketPro Computer Shows
Store manager: Bob Martin
PO Box 767
Larkspur, CA 94977
415-388-8893
Areas of Specialty (and In-House Specialist): Computer Trade Shows
Operating Systems Supported: MS-DOS, OS/2, Amiga, Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: IBM Compatible, Seagate, Conner
Special Value-Added Services: At each of our computer shows, millions of dollars of merchandise is available to the public at superstore prices.

Whole Earth Access
Store manager: Richard Guisti
863 E. Francisco Blvd
San Rafael, CA 94901
415-459-3533 Fax:415-459-1100
Operating Systems Supported: MS-DOS, OS/2, Macintosh
Top-Selling Brands in 1991: Apple, Hewlett-Packard, Toshiba
Special Value-Added Services: Service, training, support, warranties, 30-day return policy. Demo days, seminars, best price guarantee, open weekends and evenings, wide assortment of products.

VALLEJO/SACRAMENTO

Aroma Tech Inc
Store manager: Danny
3430 Tully Rd, #21
Modesto, CA 95350
209-525-8080 Fax:209-525-8120
Operating Systems Supported: MS-DOS
Top-Selling Brands in 1991: Orchid, Diamond, Conner

Computer Audio Video Experience
Store manager: Ron Stout
304 Spring St
Suisun, CA 94585
707-421-2283
Areas of Specialty (and In-House Specialist): Video (Rick Sones); Desktop Publishing (Ron Stout)
Operating Systems Supported: Amiga
Top-Selling Brands in 1991: Amiga 3000, Video Toaster, DPTV
Special Value-Added Services: Classes available for Amiga-DOS, Video Toaster, CDTV, Desktop Publishing, user group meeting for Video and Amiga.

ComputerLand of Stockton
Store manager: Michael Kushner
4343 Pacific Ave
Stockton, CA 95207
209-473-1241
Areas of Specialty (and In-House Specialist): Hardware (networks); Application Software
Operating Systems Supported: MS-DOS, OS/2, Macintosh, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: Hewlett-Packard, IBM, Apple
Special Value-Added Services: Full support package available for networks and custom applications. Fortune 500 service.

The Computer Store
Store manager: Daniel Duane
1870 Fulton Ave
Sacramento, CA 95825
916-972-7678 Fax:916-972-9865
Areas of Specialty (and In-House Specialist): DOS, Novell (Daniel Duane); DOS, Novell (Alex Baron)
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Optima systems, SLK systems, Panasonic
Special Value-Added Services: Computer repair, Novell network setup & training, XENIX base multiuser accounting systems, 1-year warranty parts and labor, 30-day compatibility money-back guarantee.

Computer Training Network
Store manager: Peter Bennett/Rick Frost
480 Redwood St, Ste #43
Vallejo, CA 94590
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486-33 w/128K Cache	~~$1119~~	**$909**
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- ■ **SOFTWARE:** We customize/recommend software for your specific needs

BASIC SYSTEM FEATURES:

- **286/386/486 Motherboard w/CPU & 1MB RAM**
- **Baby Tower w/Power Supply**
- **1.2MB or 1.44MB FDD**
- **IDE 2HD/2FD controller**
- **Maxi 101 keys enchanced keyboard**
- **Math Coprocessor socket**
- **Real time clock/calendar**
- **48-hour burn-in (minimum)**
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286-12/16MHz w/CPU	$67/76
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486SX-20 w/CPU	$476
486DX-25 64/128/256K Cache	$207/237/268
486DX-33 64/128/256K Cache	$207/237/268

CPU & MEMORY:

INTEL,AMD CPU	CALL
256K 80ns SIMM	$11
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CASES & POWER SUPPLYS:

Desktop/Mini Tower w/200W	$64/64
Med Tower w/200W	$84
Full Tower w/230W	$115
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MGP/MCGP/CGP/EGA	$14/27/18/38
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TRIDENT SVGA 1M	$90
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MONITORS:

12" TTL Amber	$76
BTC 14" Flat Screen	$101
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*IMPRESSION SVGA/others	$259/CALL
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NEC 3D/4D/5D MULTISCAN	$539/985/1999
NEC 3FGX/4FGX	$639/785
RELISYS RE9512/9513/9514	$245/280/299
RELISYS Multiscan 5155	$415
SEIKO CM1440/1450-NI	$480/589
SONY 1304 .25 HG NI	$589
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9600 Fax/2400 Modem	$114

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COLORADO 120/250 MB	$275/325
COLORADO External kit	$115
COLORADO Controller	$94
SONY EXT CD-ROM (640MB)	$579

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LOGITECH TrackMan Ser/Bus	$79/89
LOGITECH ScanMan 256	$259
LOGITECH Mouse w/Windows 3.0	$157
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IDE 1:1 2HD/2FD w/2S/1P	$27
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ESDI DTC 6280	$132
ESDI ULTRASTOR 32K	$179
SCSI DTC	$135
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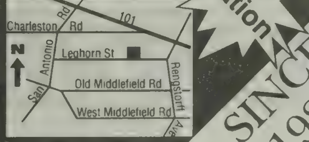

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386DX-40 w/64K Cache	**586**
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Store manager: Kevin
3019 Arden Way
Sacramento, CA 95825
916-972-0311 Fax:916-972-0539
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

Domino Computer Self-Service Centers—Vallejo

Store manager: Paul
480 Redwood St, Ste 41
Vallejo, CA 94590
707-644-5055 Fax:707-644-5054
Areas of Specialty (and In-House Specialist): Build your own computer (Joe Chan).
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX
Top-Selling Brands in 1991: Spear, Everex, Arche
Special Value-Added Services: The customers build the computers with us. We will assist them to make sure the computer they build works.

IP Micro

Store manager: Bert Brendle
3084 Sunrise Blvd, Ste 4
Rancho Cordova, CA 95742
916-635-0126
Areas of Specialty (and In-House Specialist): Novell Networks (Bert Brendle); Small Business Systems (Bert Brendle); CAD Stations (Bert Brendle).
Operating Systems Supported: MS-DOS, DR DOS.
Top-Selling Brands in 1991: Novell, Seagate, Canon
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Lisa Shop

PO Box 969
Woodland, CA 95695
916-668-5637
Areas of Specialty (and In-House Specialist): Macintosh Repair/Recovery (Frank Freeman); Lisa/MacXL (Frank Freeman)
Operating Systems Supported: Macintosh, UNIX/XENIX
Top-Selling Brands in 1991: Macintosh
Special Value-Added Services: We support all Apple systems from the Apple II to the newest Mac.

Ryno Computer

Store manager: Steve Kaplan
4253 Park Rd
Benicia, CA 94510
510-685-8080
Areas of Specialty (and In-House Specialist): Networking; Hardware; Accessories.
Operating Systems Supported: MS-DOS, OS/2, UNIX/XENIX, Novell.
Top-Selling Brands in 1991: DTK, Novell, Panasonic
Special Value-Added Services: Complete training center with 14-station network. On-site service, leasing, return and upgrade policy.

continued on page 246

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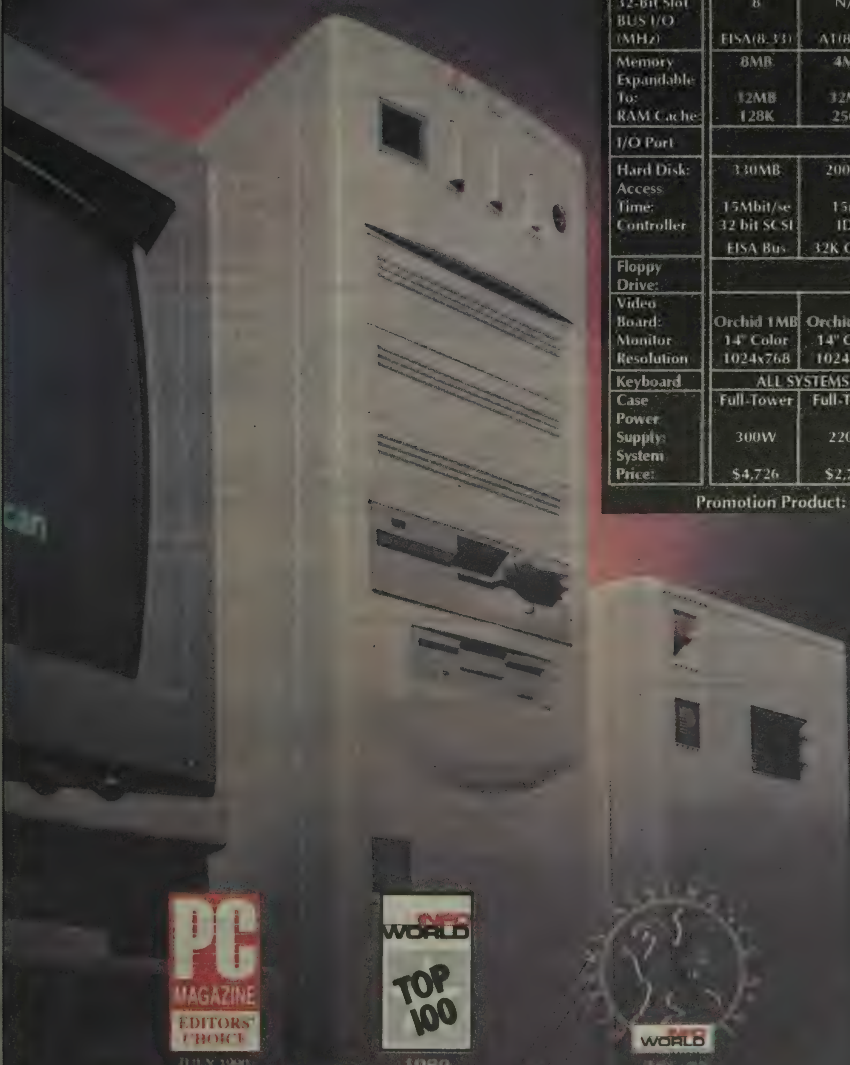

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This commitment to font quality has earned IQ Engineering accolades from numerous industry critics. Super Cartridge fonts have been awarded two "Best of" awards and a prestigious "Editor's Choice" from PC Magazine.

IQ Engineering's technical innovation continues. They are now marketing a new scalable font cartridge for HP LaserJet III printers. This new cartridge, the Super Cartridge 3/Professional Edition, offers LaserJet III users who are looking for PostScript, a better alternative than a cumbersome emulation cartridge.

The Super Cartridge 3 provides equivalents for the 35 typefaces made popular by PostScript printers--such as Palatino, Avant Garde and Dingbats--plus 15 other type styles. These IQ Engineering typefaces include a version of Garamond Old Style, decorative faces like the medieval English Blackletter and Modern Gothic (similar to Diet Pepsi's logo) and several fixed-width fonts for spreadsheets. And keeping with tradition, IQE's font design is excellent.

If you're looking for PostScript--look first at the Super Cartridge 3...It's a better option for the LaserJet III.

With the Super Cartridge 3 users can access over 40 symbol sets, more than any other scalable font cartridge, for foreign language, math and scientific uses.

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The Super Cartridge 3, like all IQ Engineering products, comes with a 30-day money back guarantee, a lifetime warranty, and toll-free technical support.

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PC Magazine
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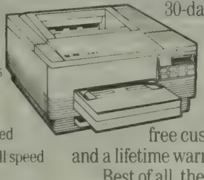

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Truly portable, extremely small, laser quality printer. Weighs only 2 lbs., has 2 built in fonts and even prints on overhead projection transparencies. *Battery and carrying case Included!*

CITIZEN™ Only **$369!**
$20 Month

Canon Super Bubble Jet Printer

with Tractor Feed!

A great printer for a song with laser quality output to boot! *What a steal!!* Lightning fast 300cps speed and 3 resident fonts plus 360dpi output.

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If you have a problem with one of our computers we can usually have it fixed within 1 hour. We have an excellent technical support staff that's dedicated to keeping you happy.

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When you buy at Uncle Ralph's, you get our lowest price gaurantee. If you find it for less at another local dealer we'll match that price, now or up to 30 days after you buy! We'll even give you an extra 10% of the difference for you trouble.

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We pre-screen everything we sell for compatibility & reliability. We know how much you hate it when your equipment is in the shop and we want to keep you happy.

Helpful Advice...

Before you buy We'll take the time to help you choose what's right for you. We have an excellent selection and a knowledgable staff that make it easy for you to make the right decision.

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This great little computer weighs only 4.4 lbs. including the internal battery, and is 1-1/4" thick. It comes complete with 20Mb Hard Drive, Backlit VGA Screen & full-sized keyboard. Expandable system has many options available.

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America grew up listening to us. It still does.

- 20 MB Hard Drive
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Fax/ Modem

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- 1.44Mb Floppy Drive
- 40Mb Hard Drive

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- 2 MB RAM
- 1.44Mb Floppy

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PRINTERS

Packard Bell Laser Printer

1 Year On-Site Service!

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Microtek TrueLaser Postscript Printer

Microtek — Better Images Through Innovation

This printer is fast, flexible and simple to use. Bundled with 35 resident TrueType fonts, this printer is fully PostScript, TrueImage & PCL compatible. 3 MB RAM, upgradeable to 6, it has interface switching and a 1 year warranty & 6 months on-site service guarantee.

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Brother High Performance Laser Printer

Wow is this thing loaded! The new HL-8V has 12 resident scalable fonts, 24 bitmapped fonts, 1 Mb of RAM, expandable to 5Mb, 32 bit processor, great 8 ppm speed, and it prints on transparencies, label sheets and envelopes!

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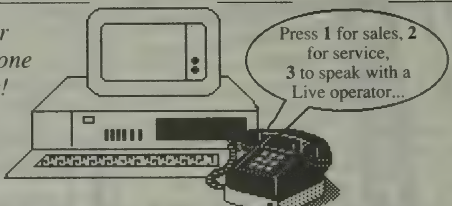
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continued on page 91

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1MB EXPANSION BOARD	393
2MB EXPANSION BOARD	562
4MB KIT	394
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512K MODULE	$140
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1MB MODULE	$100
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1MB MODULE	$350
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1MB MODULE	$185
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TRAVELMATE 3000 2MB UPGRADE	$215
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2MB MODULE	$165
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2MB CARD (ALPHA)	319
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2MB BOARD	170
4MB BOARD	270
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2MB BOARD	295
OKIDATA LASER 800 & 820	
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3MB BOARD	400
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PANASONIC LASER 4450	
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83D87-16	170
83D87-20	170
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9. Prices subject to change without notice

◆ MACINTOSH AND PC COMPATIBLE ◆

Fast, fully PostScript® compatible Laser Printer

Just $1295

✓ Faster than printers costing 3X as much!

Thanks to a powerful AMD 29000 32-bit RISC processor, the LX-29000's font benchmark is the runaway winner (see chart to right)! It can print 35 fonts in just 66 seconds--faster than some printers costing 3 times as much!

✓ PostScript® & HP LaserJet II compatible!

The LX-29000 comes with 35 typefaces and uses Microsoft's TrueImage for full compatibility with PostScript, the professional standard for graphics and typesetting. It accepts Adobe Type 1 and 3 fonts as well as TrueType fonts. It works great with Windows 3.X, Apple System 7 and all Mac and PC software that supports PostScript or TrueImage printing. And its HP emulation easily handles non-PostScript printing.

✓ Uses Canon's dependable LX engine

The LX-29000 uses the same lightweight, small-footprint, 300 dpi, 4 ppm Canon LX engine used by HP, Apple and QMS, so supplies and service are never a problem. And Canon's patented all-in-one cartridge eliminates all that toner mess.

✓ For PC, Mac and Others

Prints from your IBM PC or Macintosh via Centronics, RS-232C or AppleTalk interfaces. Interface selection is automatic. The LX-29000 comes with 2 megabytes RAM, a universal paper tray and a toner cartridge.

✓ Printers are our business!

We've been in business since 1982, so you can be assured that we know printers. Our prices are lower than most because we sell directly to you—no middleman! We offer a full 30-day money-back guarantee, a one year warranty on all parts and labor, plus free phone support. And, we're a Canon Authorized Service Facility.

◆ OPTIONAL ACCESSORIES FOR THE LX-29000 ◆

✓ Paper Feeders and Trays

250-sheet paper feeder
Installs beneath the LX-29000 or any Canon LX engine printer. The letter tray (included) provides up to 250 sheet capacity. The feeder also allows dual bin operation with the existing LX-29000 paper tray. Additional paper trays are available for Legal size and envelopes. $159.95

Envelope tray
Holds 20 envelopes. Requires paper feeder (sold above). $69.95

Legal paper tray
Holds 250 sheets of 8.5 x 14" paper. Requires paper feeder (sold above). $64.95

✓ Supplies

Additional toner cartridge
All-in-one toner cartridge for Canon LX laser printer engines, for rich blacks and crisp resolution. Rated for 3500 pages at 5% coverage For LX-29000, HP Laserjet IIP, Apple Personal LaserWriter series and many other well known brands. $79

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This clay-coated, high contrast paper is specifically designed for laser printers. It reduces paper feed jams and gives you great looking output. Sold only by the ream (500 sheets). Ream $9.95

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8½x11-12M-S24/60
500 Sheets

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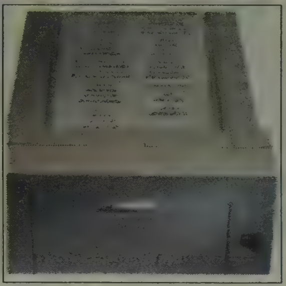
LX 29000, THE PRINTER WORKS AND THE PRINTER WORKS' LOGO ARE TRADEMARKS OF THE PRINTER WORKS, INC. POSTSCRIPT IS A REGISTERED TRADEMARK OF ADOBE SYSTEMS INC. ALL OTHER PRODUCT AND BRAND NAMES ARE TRADEMARKS OR REGISTERED TRADEMARKS OF THEIR RESPECTIVE COMPANIES.

◆ MACINTOSH AND PC COMPATIBLE ◆



If you've been waiting for just the right combination of speed, PostScript® compatibility and price to buy a new laser printer, wait no more! Introducing the new LX-29000™ from The Printer Works!

Printer	Font Benchmark (sec.)	Engine Make	Actual Wt.	All-in-one toner cartridge	Toner & drum cost	Street price
LX-29000	66	Canon	26	Yes	$79	$1295
GCC BLP Elite	225	OKI	24	No	$268	$1495
NEC Silentwriter II Model 90	213	Minolta	44	Yes	$209	$1595
QMS-PS 410	106	Canon	26	Yes	$79	$1925
QMS-PS 810 Turbo	99	Canon	44	Yes	$89	$3995
Apple Personal LaserWriter NT	165	Canon	30	Yes	$89	$1995
HP LaserJet IIP w/ Adobe cartridge	213	Canon	26	Yes	$89	$1525

◆ OPTIONAL ACCESSORIES FOR THE LX-29000 ◆

✓ Cables

AppleTalk kit (DIN 8)
Connects an AppleTalk compatible printer (such as the LX-29000) to an existing AppleTalk network. Includes 12' phone cable.
$19.95

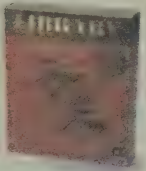
AppleTalk kit (DB9)
As above but for use with earlier Macintosh models with DB9 printer port.
$19.95

IBM Centronics cable
12-foot cable connects a Centronics compatible printer to a parallel port on an IBM PC or compatible computer.
$9.95

AppleTalk Cable
12-foot cable connects one Macintosh computer to one printer.
$12.95

✓ Fonts

Casady & Green Fluent Fonts (PC Version)
81 original Adobe Type 1 compatible fonts. Includes Adobe Type Manager (ATM) for Windows 3.0, plus installation software for WordPerfect and Microsoft Works for DOS.
$109
Mac Version $109



✓ On Site Service

GE Computer Service

Insure yourself against excessive printer downtime with a 90-day service contract from General Electric, one of the world's largest service groups. 24-hour response anywhere in the contiguous United States. Extended service contracts also available.
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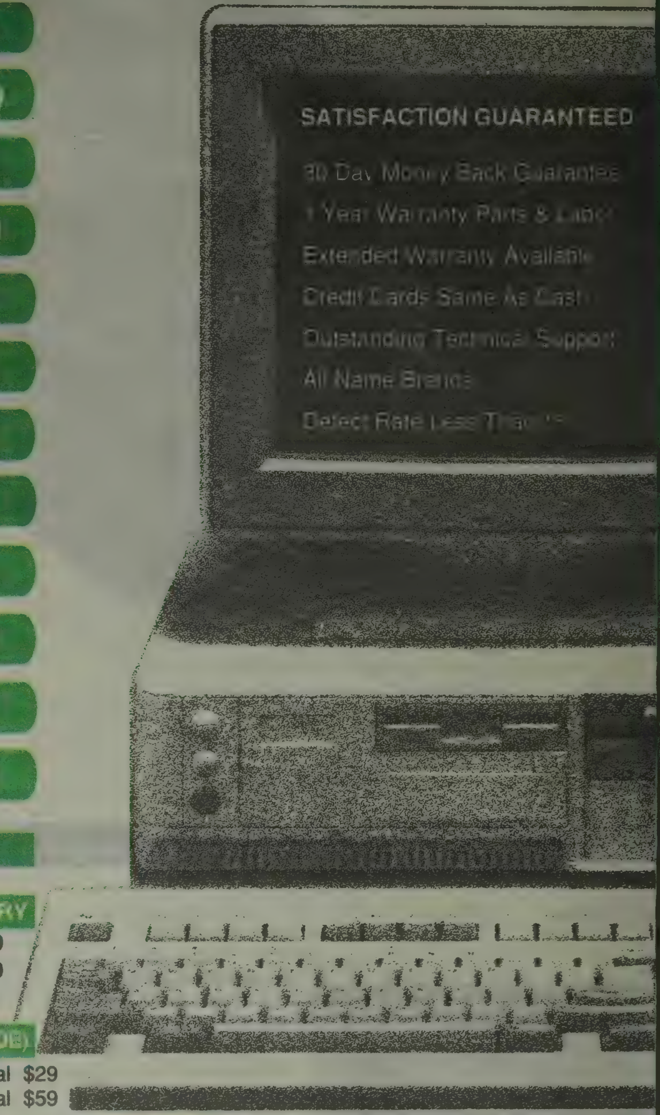
386-40 w/64 K Cache & 120 MB HD	$909
386-25 40 MB HD	$639
386-25SX 40 MB HD	$589
386-20SX W/16K Cache & 40 MB HD	$589
386-16SX 40 MB HD	$529
286-16 40 MB HD	$469
286-12 40 MB HD	$449



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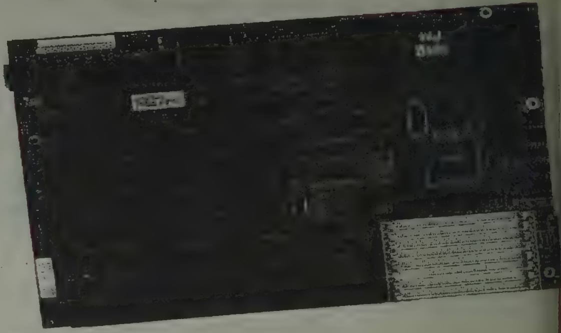

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-MINI OR FLAT CASE
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Orchid Prodesigner IIs w/1MB & Sierra DAC	185.00
Video 7 Spea 1280 2MB/1MB VRAM/DRAM	1,945.00
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Northgate Ultra Enhanced Keyboard	95.00
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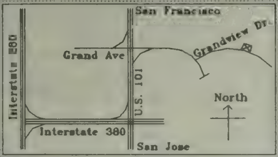

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386-40/64K	605	386SX-20	385
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- 1MB MEMORY
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- HD/2FD CONTROLLER
- 2S/1P/1G
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- REAL-TIME CLOCK/CALENDAR
- COPROCESSOR SOCKET

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PAN 486-33	760
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G386SX-25	180
G386SX-20	170
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OAK SVGA/256K	40

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SEIKO-1450 (1024x768) .26	575
SONY 1314 (1024x768) .26	570
CTX SVGA (1024x768) .28 NON-INT	370

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IDE 2HD/4FD 2S 1P	$48
IDE 2HD/2FD 2S 1P 1G	26

MISCELLANEOUS

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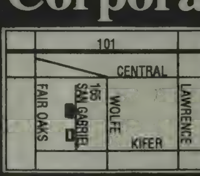

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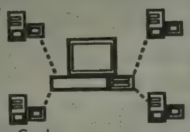

- Intel 80286-16MHz CPU
- 2 MB RAM
- Teac 3.5 & 5.25 Floppy Drives
- AT I/O Card
- Clock/Calendar
- 101 Enhanced keyboard
- Baby AT Case
- 8-bit Ethernet Networking Card
- 14" Mono monitor
- Main Land Network Software Package Included

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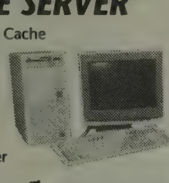
VGA option $205 per station

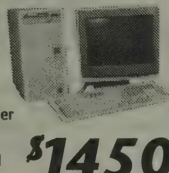
486-33 FILE SERVER



- Intel 486-33 MHz w/64K Cache on board
- 8 MB RAM
- 200 MB Hard Drive
- Teac 3.5 & 5.25 Floppy Drives
- 12" Mono Monitor
- 16-bit Ethernet card
- IDE hard/floppy controller
- AT I/O Card
- Clock /Calendar
- 101 Enhanced keyboard
- Minitower case

$1975

386-33 FILE SERVER



- Intel 386-33 MHz w/64K Cache on board
- 4 MB RAM
- 200 MB Hard Drive
- Teac 3.5 & 5.25 Floppy Drives
- 12" Mono Monitor
- 16-bit Ethernet card
- IDE hard/floppy controller
- AT I/O Card
- Clock /Calendar
- 101 Enhanced keyboard
- Minitower case

$1450

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16 bit Ethernet-Coax	125
8 bit 10BASE-T-UTP	135
16 bit 10BASE-T-UTP	145
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Thin Ethernet Transceiver	55
14 port 10BASE-T Hub	590
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Custom Cable (25) RG58-U	18

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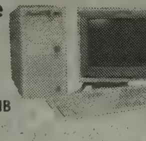
486-33 w/64K Cache

Super VGA Monitor
200 MB Hard Drive



- Intel 486-33 w/64K Cache
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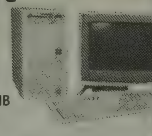
- 200 MB Conner Hard Drive
- 14" Mitac SuperVGA Monitor (1024x768) .28 dpi
- Trident Super VGA Card w/1MB
- Teac 3.5 & 5.25 Floppy Drive
- IDE Hard/Floppy Controller
- AT I/O Card
- Clock/Calendar
- 101 Enhanced Keyboard
- Mid-tower Case

$1975

386-40 w/64K Cache

Super VGA Monitor
120 MB Hard Drive

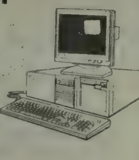


- AMD 386-40
- 4 MB RAM exp. to 32 MB
- 120 MB Conner/Quantum Hard Drive
- 14" Mitac Super VGA Monitor (1024x768) .28 dpi
- Trident Super VGA Card w/1MB
- Teac 3.5 & 5.25 Floppy Drive
- IDE Hard/Floppy Controller
- AT I/O Card
- Clock/Calendar
- 101 Enhanced Keyboard
- Minitower or Desktop Case

$1450

386-25

Super VGA Monitor
80 MB Hard Drive

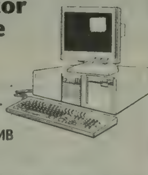


- Intel/AMD 386-25
- 2 MB RAM exp. to 8 MB
- 80 MB Quantum/Maxtor Hard Drive
- 14" MitacSuper VGA Monitor (1024x768) .28 dpi
- Trident Super VGA Card w/1MB
- Teac 3.5 & 5.25 Floppy Drive
- IDE Hard/Floppy Controller
- AT I/O Card
- Clock/Calendar
- 101 Enhanced Keyboard
- Minitower or Desktop Case

$1200

386SX-20

Super VGA Monitor
80 MB Hard Drive



- Intel 386SX-20
- 2 MB RAM exp. to 8 MB
- 80 MB Quantum/Maxtor Hard Drive
- 14" Mitac Super VGA Monitor (1024x768) .28 dpi
- Trident Super VGA Card w/1MB
- Teac 3.5 & 5.25 Floppy Drive
- IDE Hard/Floppy Controller
- AT I/O Card
- Clock/Calendar
- 101 Enhanced Keyboard
- Minitower or Desktop Case

$1050

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213 MB LXT-7213A, 15ms	545
340 MB LXT-340A, 13ms	895
QUANTUM	
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MITSUBISHI	
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NEC	
5D 20" 1280x1024 .31dp, Non-Int	$2300

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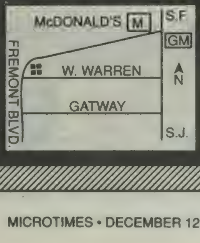

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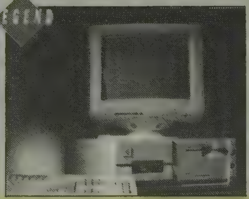
The LEGEND™ 386DX-40 Microcomputer



LEGEND™ 386DX-25

Intel 386DX-25 CPU
4 MB RAM
1.2 or 1.44MB Floppy Drive
80MB IDE Hard Drive
14" SVGA Monitor
512K SVGA Card
2 Serial/1 Parallel Ports
8 Expansion Slots
Enhanced Keyboard
Deluxe Mini Tower Case
w/200W Power Supply

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LEGEND™ 386SX-25

Intel 386SX-25 CPU
1MB RAM
1.2 or 1.44MB Floppy Drive
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512K SVGA Card
2 Serial/1 Parallel/1 Game Ports
8 Expansion Slots
Enhanced Keyboard
Deluxe Mini Tower/Desktop Case
w/200W Power Supply

(Santa likes this one)
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The LEGEND™ 486DX-33 Microcomputer

SYSTEM OPTIONS AND UPGRADES

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360MB SCSI Hard Drive...CALL
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We can provide storage devices to meet your requirements. Let us know what you need.

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All SIMM, SIPP and DRAM upgrades are available for most systems. RAM prices fluctuate. Please call for latest and best pricing.

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Colorado DJ-10 120MB Tape Drive...245
Colorado DJ-20 250MB Tape Drive...329
Colorado AB-10 Adapter...79
Colorado External Kit...159
DC2120 Tape Cartridge...30

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Touch SVGA Monitor .28...299
Legend2 SVGA .28...329
Legend2 SVGA Non-Int .28...439
Seiko 1450 SVGA Non-Int .26...565
Seiko 2050 1280x1024 20"...1950
NEC 3DS/4DS/5D...Call
Samsung 17" SVGA Non-Int...895
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Orchid ProDesigner IIs (1MB)....259
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(3 fans, 13 expansion slots)

DIAMOND CASES ALSO AVAILABLE IN BLACK

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386DX-25 w/CPU...329
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486DX-33 w/CPU, 64K Cache...709
486DX-33 w/CPU, 256K Cache...789
486-33EISA, CPU, 256K Cache...1599
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Enhanced Keyboard...59
Black Enhanced Keyboard...59

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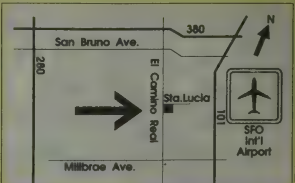

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EXCEL EISA 33MHz 486

w/256KB Cache

- **120 MB H/D**
- **4 MB RAM**

On-board, expandable to 64 MB

- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock
- 250W Power Supply
- Vertical case holds 6 drives
- Supports MS-DOS, OS/2, PC MOS/386, UNIX, XENIX, Dr. DOS, Concurrent DOS 386

$2395

HD	MONO 14"	Super VGA Color 1024x768	Super VGA 1024x768 Non-interlaced
120MB	$2,495	$2,795	$2,998
200MB	$2,745	$2,998	$3,198

intel inside

EXCEL ISA 33MHz 486

w/128KB Cache

- Landmark Speed = 165
- **105 MB H/D** (16ms)
- 1 MB RAM On-board, Expandable to 32 MB
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock
- 230W Power Supply
- Vertical case holds 6 drives
- Supports MS-DOS, OS/2, PC MOS/386, UNIX, XENIX, Dr. DOS, Concurrent DOS 386

25MHz HD	MONO 14"	Super VGA Color 1024x768	Super VGA 1024x768 Non-interlaced
105MB	$1,398	$1,635	$1,775
120MB	$1,425	$1,669	$1,805
200MB	$1,665	$1,898	$1,998

$1298

EXCEL 40MHz 386

w/128K Cache

- **40 MB H/D**
- 1 MB RAM On-board, Expandable to 32 MB
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock
- 230W Power Supply
- Vertical case holds 6 drives
- Supports MS-DOS, OS/2, PC MOS/386, UNIX, XENIX, Dr. DOS, Concurrent DOS 386

$789

40MHz HD	MONO 14"	VGA Color	Super VGA 1024x768
40MB	$889	$1,079	$1,139
105MB	$1,039	$1,125	$1,275
120MB	$1,065	$1,265	$1,325

EXCEL 33 MHz 386

w/64K CACHE

$755

- Landmark Speed = 56 SI = 41
- 1 MB RAM Expandable to 32 MB;
- Socket for 80387 & Weitek Math Co-Processor
- 1x32 Bit, 5x16 Bit, 2x8 Bit Slots
- Real Time Clock/CMOS Memory w/Battery Backup
- 1.2 or 1.44 MB Floppy Drive
- **40 MB H/D**
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 230W P/S Syst. Case Holds 5 Drives
- 101 Key Enhanced Keyboard

HD	MONO	VGA Color	Super VGA 1024x768
40MB	$855	$1,045	$1,099
105MB	$998	$1,185	$1,245
120MB	$1,025	$1,215	$1,295

System Board:

386SX-16MHz	$195
386-25 MHz	$345
386-40 w/64K Cache	$415
386-33 w/64K Cache	$399
486-33 w/128K Cache	$795
EISA 486-33 w/256K Cache	$1,495

Drives:

SONY CD ROM	$395
TEAC 1.2 MB	$59
TEAC 1.44 MB	$59
40 MB H/D	$185
80 MB H/D	$275
105 MB H/D	$315
120 MB H/D	$345
200 MB H/D	$565
320 MB H/D	$1,135
120 MB Tape Backup Dr	$295
250 MB Tape Backup Dr.	$395

Other:

Mono Card	$25
16 Bit VGA Card	$65
14" Mono Monitor	$115
14" Mono VGA Monitor	$145
VGA Color Monitor	$265
VGA Monitor (1024x768)	$299
All VGA Monitors	CALL
All Printers	CALL
All Math Co/Memory	CALL
Windows 3.0 w/Mouse	$95
Serial Mouse	$35
Logitech Mouse C9	$65
Tower Case w/PS	$85
Mini AT Case w/PS	$65
101 Enhanced Keyboard	$38
I/O Card (2S, 1P, 1G)	$25
2400 Baud Modem	$65
FAX/Modem (9600/2400) (Send/Receive)	$145
All Shareware	$3

EXCEL 25MHz 386

- Landmark Speed = 34.5 SI = 29.5 (w/Memory Interleave)
- 1 MB RAM Expandable to 8 MB On-Board
- Socket for 80387
- 1x32 Bit, 5x16 Bit, 2x8 Bit Slots
- Real Time Clock/CMOS Memory w/Battery Backup
- 1.2 or 1.44 MB Floppy Drive
- **40 MB H/D**
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 230W Power Supply & Case Holds 5 Drives
- 101 Key Enhanced Keyboard

$655

HD	MONO	VGA Color	Super VGA 1024x768
40MB	$755	$948	$1,015
105MB	$898	$1,098	$1,158
120MB	$949	$1,145	$1,194

EXCEL 16MHz 386SX

- Landmark Speed = 22 SI=21
- 1 MB RAM On Board Expandable to 8 MB
- 1.2 or 1.44 MB Floppy Drive
- **40 MB H/D**
- 1:1 Interleave Hard/Floppy Disk Controller
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Key Enhanced Keyboard
- 200W Power Supply & Case Holds 5 Drives
- Real Time Clock W/Battery Backup
- Socket For 80387SX

HD	MONO	VGA Color	Super VGA 1024x768
40MB	$669	$865	$915
105MB	$815	$998	$1,059
120MB	$855	$1,045	$1,095

$569

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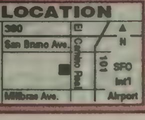

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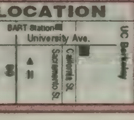

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- 64K Cache
- 1 MB Expandable to 32 MB
- Landmark=151
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- Supports External Weitek
- Teac 1.2 MB or 1.44 MB Floppy Drive
- 1:1 Interleave FD/HD Controller
- 2 Serial, Parallel, Game Port
- 101 Keyboard
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- AMI BIOS
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- 2 Serial, Parallel, Game Port
- 101 Keyboard
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40 MHz . . . . **CALL**

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- 1 MB RAM on board
- C & T NEAT Chip Set
- AMI BIOS
- EMS-LIM 4.0 on Board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB or 1.44 MB Floppy Drive
- 2 Serial, Parallel, Game Port
- 101 Keyboard
- Deluxe Case or Mini Tower

$525

386-SX 16 MHz System

- Intel 386-SX CPU
- 1 MB RAM on board, Landmark=21.6
- AMI BIOS
- EMS-LIM 4.0 on Board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB or 1.44 MB Floppy
- 2 Serial, Parallel, Game Port
- 101 Keyboard
- Choice: Regular Baby Case or Small Vertical Case

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- C&T Chip Set
- Ems 4.0 & Shadow Ram
- 1:1 Interleave HD/FD Controller
- 101 Keyboard
- Choice: Regular Case, Baby Case or Small Vertical Case

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20 MHz. **$320**

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Conner CP 3000 40 MB	**175**
Conner 20104 125 MB	**360**
Conner 200 MB	**545**
Maxtor 213 AT 200 MB	**580**
Quantum 120 MB	**340**

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Everex 1200 Baud (int)	**$54**
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Everex Fax Modem (int)	**255**
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9600 Baud Modem	**CALL**
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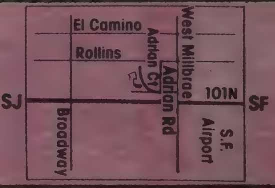

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386SX-16 Mylex..........$170
386DX-25.......................$274
386DX-25/33C.......$335/365
386DX-33C...US..........$408
386DX-40C.....................$399

486DX-25C.....................$595
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IDE W/ 2SPG...............$27
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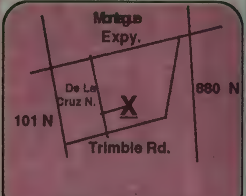

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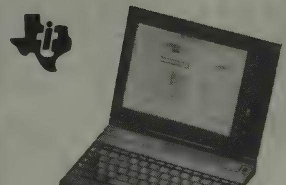

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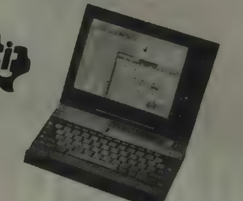

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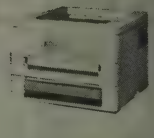

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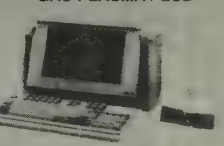

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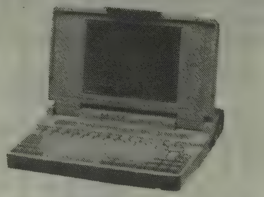

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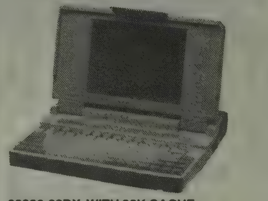

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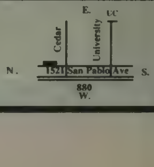

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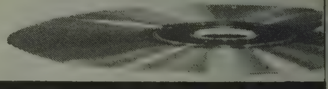

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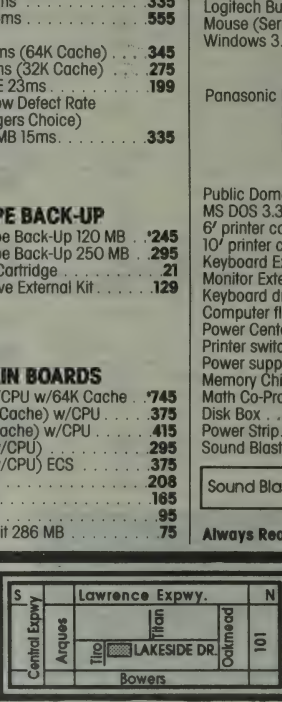

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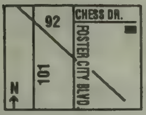

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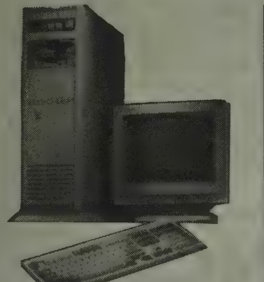

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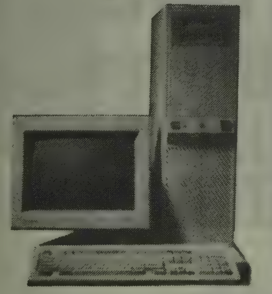

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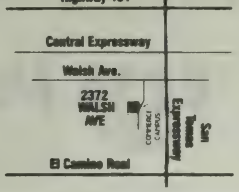

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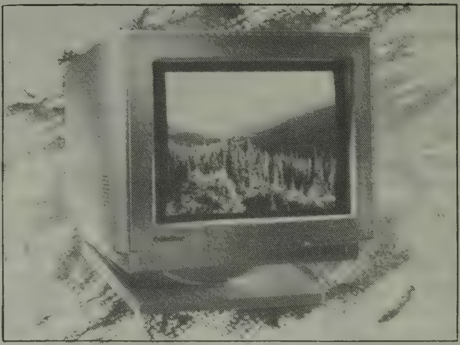

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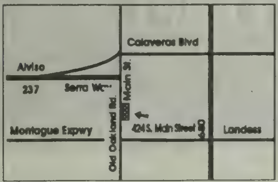

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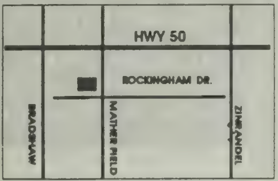

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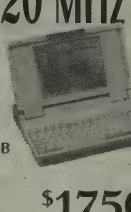

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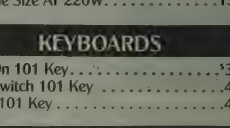

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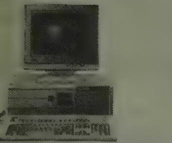

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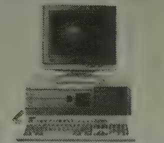

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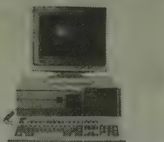

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286N; 386N	0-16MN EXP BRD	118700-001	115
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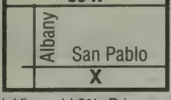

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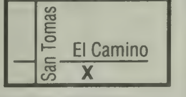

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AAMAZING 14″ VGA 640x480	240
NEC 2A MULTI VGA	480
SEIKO 1450 VGA	650
14″ AMBER MDA	95
12″ AMBER MDA	75
14″ SONY 1304 MULTI	575

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VGA 800x600	42
PARADISE OEM 1024x768	62
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QUIK DRAW VRAM (512K)	209

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113644-001 1-9MB Exp Brd	225
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113646-001 1MB Module	125
112534-001 4MB Module	315
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113634-001 4-12MB Exp Brd	529
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118690-001 4MB Module	545
DeskPro 386N; 386SX/20	
118689-001 2MB Module	225
DeskPro 286N; 386N	
118700-001 0-4MB Exp Brd	115
DeskPro 386/33	
115144-001 2MB Module	215
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116568-001 32MB Module	6000
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107653-001 4MB Exp Brd	775
107654-001 4MB Exp Brd	775
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continued from page 64

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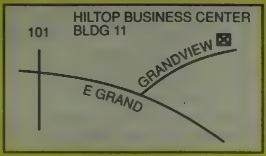

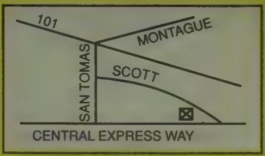

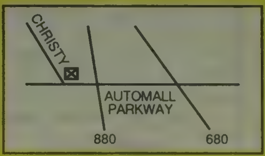

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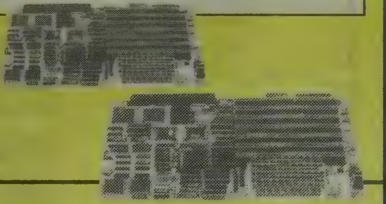

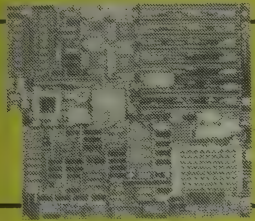

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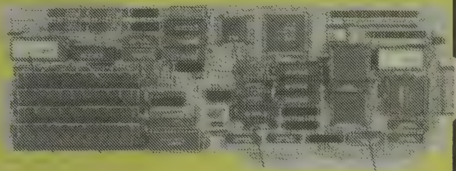

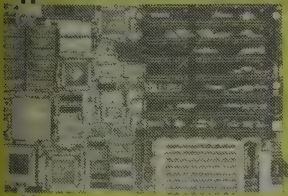

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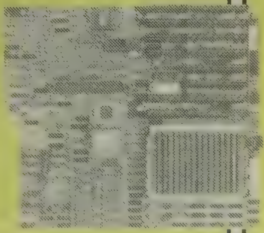

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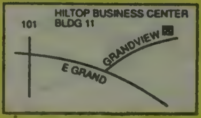

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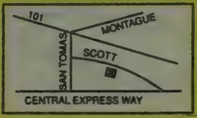

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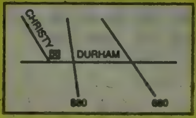

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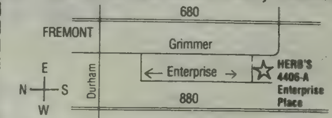

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continued on page 111

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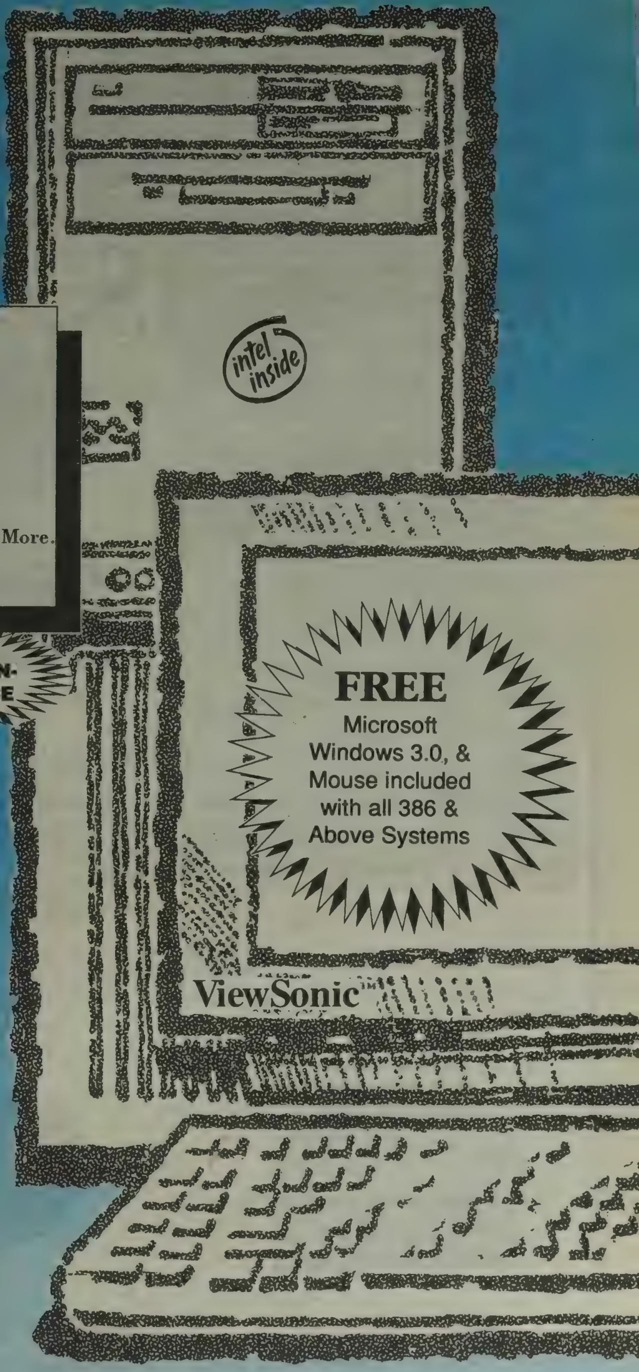

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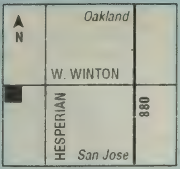

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Now the ideal entry level personal computer is more easily affordable than ever. Purchase the Classic 2/40 with 2 MB RAM and 40 MB hard drive, and either an Apple® StyleWriter® or Apple Personal LaserWriter® LS and receive a $125 Instant Rebate towards your purchase.

Macintosh Classic 2/40	**$1199**
Less	**$125**
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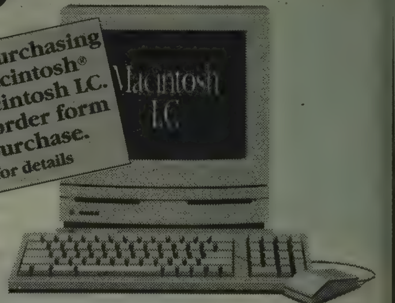
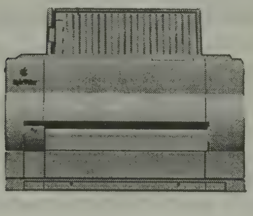
Save $350 on the Apple® Macintosh® LC



The Macintosh® Right Now Rebate™ means now is the time to purchase the most affordable color solution in the Apple® line. The LC's solid performance makes it an excellent choice for educational and business use. Purchase the Macintosh LC with an Apple 12" RGB Display or a 13" AppleColor™ High Resolution RGB Monitor and either an Apple StyleWriter® printer or and Apple Personal LaserWriter® LS and receive a $350 Instant Rebate from Apple.

Macintosh LC 2/40	**$1699**
Less	**$350**
	$1349 **Net***

Monitor extra. Keyboard extra on some models

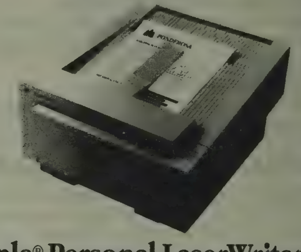


Print in Style

The StyleWriter® exemplifies the ingenuity of Apple® innovation & affordability. Apple brings outstanding laser-like quality results, quiet operation, and space saving compact design for only a fraction of the cost of a laser printer. Compatible with all Macintosh® computers.

Apple® Personal LaserWriter® LS

The new personal LaserWriter® LS printer is the most affordable personal laser printer from Apple®. It's compatible with all Macintosh® computers.



Apple® Personal LaserWriter® NT

The Personal LaserWriter® NT offers individuals and small workgroups affordable, high-quality PostScript® laser printing in a compact design. This printer has a built-in AppleTalk® interface for Macintosh® computers.

Rebate ends January 5, 1992

*** Rebate applied after sales tax.**

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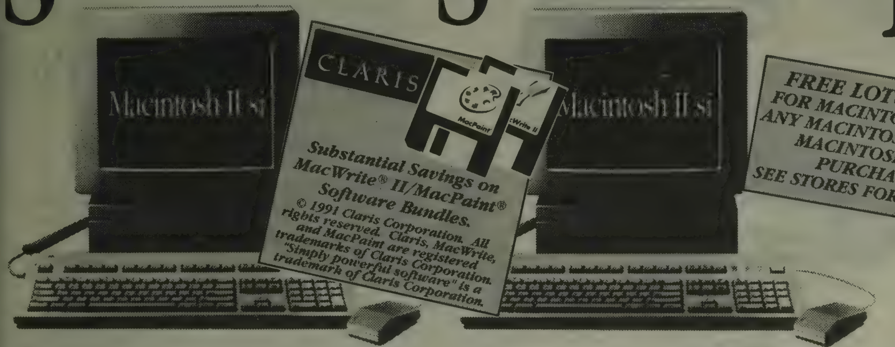
Save $600 on the Apple® Macintosh® IIsi 3/40

Save $800 on the Apple® Macintosh® IIsi 5/80



Substantial Savings on MacWrite® II/MacPaint® Software Bundles.

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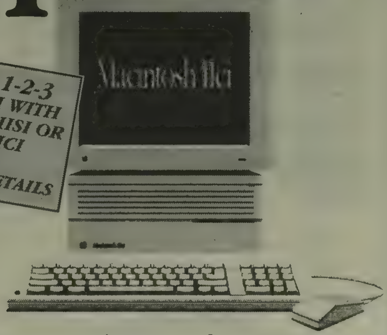


The Macintosh® IIsi has the flexibility to meet your growing demands. Equipped with color and sound capabilities, this member of the modular Macintosh product line comes with 3 MB RAM and a 40 MB hard drive making it an excellent choice for business or educational uses. Purchase the Macintosh IIsi 3/40 with either the Apple® Personal LaserWriter® LS or the Apple Personal LaserWriter NT and receive a $600 Instant Rebate towards your purchase.

Macintosh IIsi 3/40	**$2599**
Less	**$600**

Monitor and keyboard extra. **$1999 Net***

The Macintosh® IIsi's powerful 5 MB RAM configuration includes an 80 MB hard drive and a built-in cache for increased performance. System 7 capable, the powerful Macintosh IIsi 5/80 is a member of the Modular Macintosh product line. Purchase the Macintosh IIsi 5/80 with either the Apple® Personal LaserWriter® LS or the Apple Personal LaserWriter NT and receive an $800 Instant Rebate towards your purchase.

Macintosh IIsi 5/80	**$3149**
Less	**$800**

Monitor and keyboard extra. **$2349 Net***

Save up to $800 each on 3 or more Macintosh® IIci or Macintosh IIsi

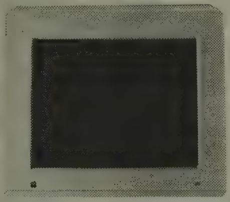
The Macintosh® IIci gives you power with room to grow. This member of the Modular Macintosh family has flexible video support built-in to support a variety of monitors without adding a video card. Purchase a combination of at least 3 Macintosh IIci or Macintosh IIsi models and receive an Instant Rebate from Apple® of $600 to $800 each without a monitor purchase.†

Macintosh IIsi 3/40	**$2599**
Less	**$600**

Monitor and keyboard extra. **$1999 Net***

Macintosh IIsi 5/80	**$3149**
Less	**$800**

Monitor and keyboard extra. **$2349 Net***



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Apple® Macintosh® 12" RGB Display

The Macintosh® 12" RGB display gives dazzling results to text and graphics, making it the right choice for Macintosh® LC users.

AppleColor™ High-Resolution RGB Monitor

The AppleColor™ High-Resolution RGB monitor is a perfect match for the modular Macintosh family. You get enough resolution and clarity to display any color you can imagine.

*** Rebate applied after sales tax.**
† Same date of purchase and same invoice required. Not valid with other rebates.
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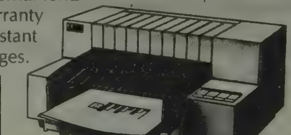

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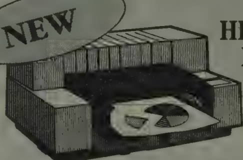

HP DeskJet 500C Printer

- Affordable laser-quality printing
- 300-dpi color printing on plain and transparencies
- Supports leading software applications including Windows 3.0
- 3-year limited warranty

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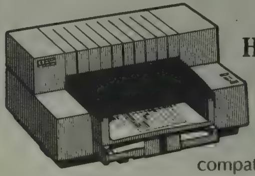
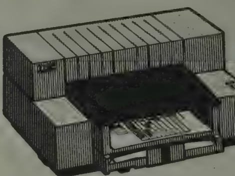


HP DeskWriter Printer

Hewlett-Packard's DeskWriter printer, now AppleTalk® compatible, brings laser-like quality to the Macintosh® line.

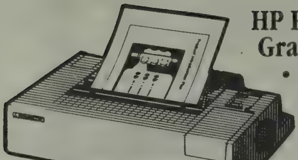
399.



HP DeskWriter C Printer

The new HP DeskWriter C adds color capacity to an already famous laser-quality black output. It's compatible with popular Macintosh® software and your budget.

849.

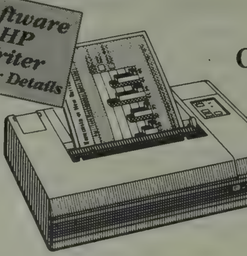


HP PaintJet Color Graphics Printer

- High quality color charts & graphics
- PC or Macintosh® compatible
- Wide range of software support.

749.

FREE Software with HP PaintWriter
See Stores for Details



Color Me Brilliant HP PaintWriter

Reports and presentations achieve their greatest impact in color produced by the HP PaintWriter printer. Prints on paper or transparency for maximum versatility. Compatible with Macintosh® color computers.

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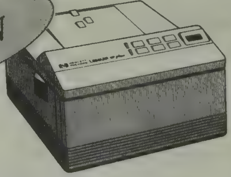
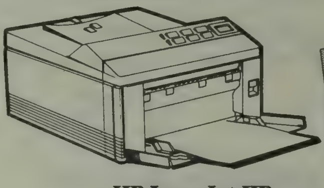


HP LaserJet IIP *plus* Printer

- High-quality, 300 dpi text and graphics
- Compact, desktop size
- Prints 4 pages per minute
- Compatible with all major software packages
- Optional 250-sheet paper cassette for dual-bin printing

829.

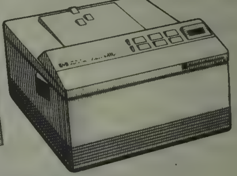


HP LaserJet IIP PostScript Printer

- Mac or IBM compatible
- True Adobe® PostScript with 35 typefaces
- Built-in LocalTalk interface
- Easy to use—"plug and play"
- Compact, desktop size

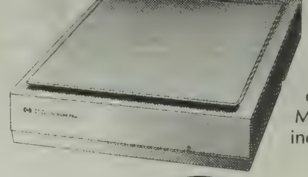
1749.

FREE Software with any HP LaserJet PostScript® Printer for Macintosh
See Stores for Details



HP LaserJet IIIP PostScript Printer

- Resolution Enhancement technology for print quality superior to ordinary 300-dpi laser print-ing
- True Adobe PostScript® with 35 typefaces
- Mac or IBM compatible
- Built-in LocalTalk interface for easy "plug & play"
- Compact, desktop size

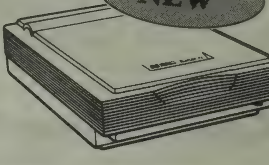


HP ScanJet Plus Scanner

- 256 grey scale levels (8 bit) for high-resolution images
- Wide range of contrast & intensity control
- PC or Macintosh® compatible
- Price includes interface.

1149.

NEW



HP ScanJet IIc

The new HP ScanJet IIc gives you 256 levels of gray or 24-bit color professional quality documents. Supports IBM AT-compatible PCs, MicroChannel or Macintosh® personal computers.

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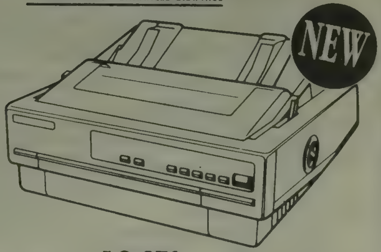
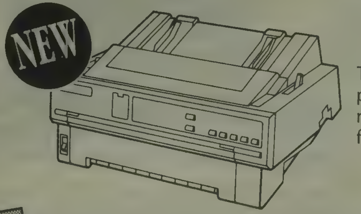
ESC/P2™ EPSON
SCALABLE FONTS • ENHANCED GRAPHICS

LQ-570

This new 24 pin printer utilizes scalable fonts, enhanced graphics and advanced paper handling to offer more performance than any printer in its class at an affordable price.

279.





LQ-870

This new 24 pin printer is a major step forward in printer technology with high speed, and high performance that sets a new industry standard for quality with scalable fonts.

489.

LQ-1170 Wide Carriage Model.......**699.**

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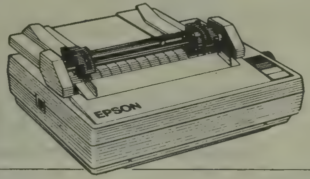
LX-810

- 9 pin • SmartPark™ paper handling
- 200 CPS super draft • 30 CPS NLQ
- High resolution graphics.

159.



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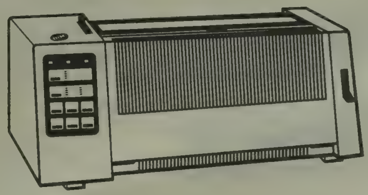
NEW PRINTERS FROM IBM®

IBM® PPSII 2380

IBM introduces 2 new 9 pin printers that can print crisp, six -part forms and thick paper stock with no problem using straight paper path technology. Solid and reliable, these printers perform flawlessly.

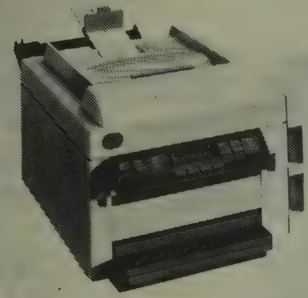
2380 Narrow Carriage ......**349.**
2381Wide Carriage...........**499.**



IBM® PPSII 2390

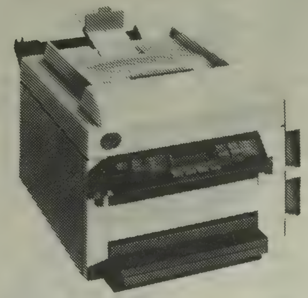
IBM introduces 2 new 24 pin printers for letter quality printing at high speed. Durable and reliable, these printers feature a straight through paper path with multiple feed options.

2390 Narrow Carriage ......**359.**
2391Wide Carriage............**509.**



IBM® LaserPrinters 6 & 10

At 6 or 10 pages per minute with Print Quality Enhancement and Scalable Fonts, these printers outperform the rest. Paper handling includes a 200 sheet input tray with optional 500 sheet drawer and 75 piece envelope feeder. When you add the optional PostScript™ and 4 MB of memory this printer provides the most affordable 600 x 600 dots per inch technology available today. HP PCL4 compatible and optional PCL5.



IBM® LaserPrinter 6
6 pages per minute
Model 4029020

1495.

IBM® LaserPrinter 10
10 pages per minute
Model 4029030

1795.

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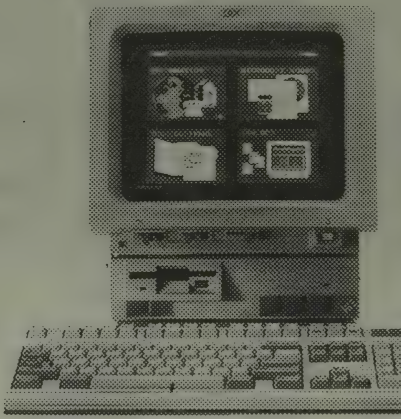


Bring It All Back Home with the IBM® PS/1™ 386SX

The new IBM PS/1 386 SX achieves the exceptional. A home machine with the power of a business model, this computer operates at 16 mhz with 2 MB's of RAM. A 40 MB hard drive stores all your essential data. Comes complete with VGA PhotoGraphic™ color display, keyboard, mouse and built in 2400b modem. Plus you get IBM DOS, Microsoft Works® and 3 months FREE Prodigy for on line home shopping, banking, travel arrangements and more.

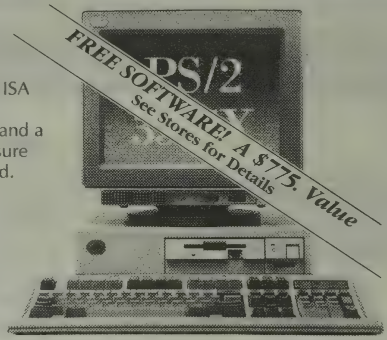
LIMITED STOCK

PS/2 NOW AVAILABLE IN ALL STORES

IBM® PS/2® 35sx

Based on an 80386sx processor operating at 20 Mhz, this latest model IBM PC offers the classic ISA buss allowing easy upgrades at reasonable cost. 2 MB of RAM and a fast 17 MS 40 MB hard drive insure top performance. VGA on board.
Monitor extra.

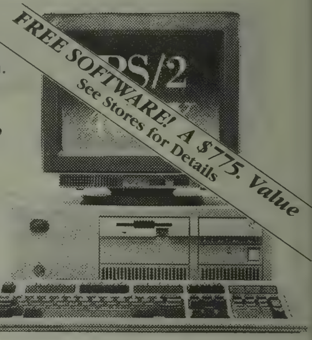
1649.*

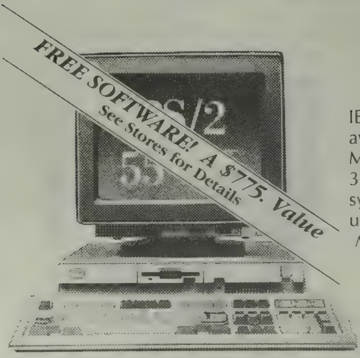


IBM® PS/2® 40sx

For more expansion capabilities step up to the PS/2 40sx with 5 slots open. VGA hard drive controller and I/O are all on the motherboard. 2 MB's of RAM come standard with up to 16 MB maximum on the system board. An 80386sx operating at 20 Mhz speeds every operation along.
Monitor extra.

1895.*

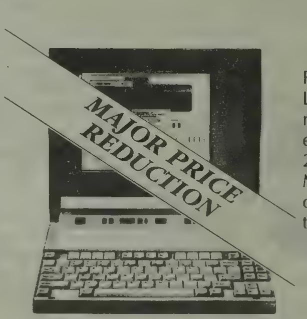




IBM® PS/2® 55sx

IBM's best selling PC is now available at a very special price. 2 MB's of RAM, VGA on board and a 30 or 60 MB hard drive make this system a hot home or home office unit.
Monitor extra.

STARTING AT **1595.**



IBM® PS/2® L40sx

Full featured, fast and flexible, the L40sx is IBM's new no compromise notebook PC. 2 MB of RAM expandable to 18 MB , VGA display, 20 Mhz 80386sx processor and 60 MB hard drive make this system an outstanding choice for the business traveler.

2999.

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** After manufacturer's rebate with purchase of IBM DOS 5.0 of OS/2.*

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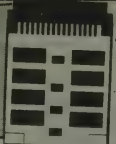

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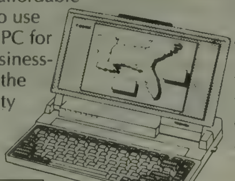
Toshiba T1000 SE

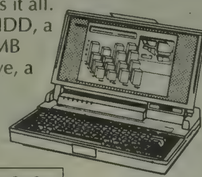
Toshiba's affordable and easy to use Notebook PC for today's business-person on the move. Plenty of comfortable features.



599.

Toshiba T1000LE

Toshiba's 6.5 pound notebook PC that has it all. A 20MB HDD, a 3.5"/1.44MB floppy drive, a terrific display and keyboard.



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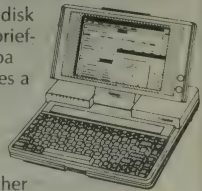
Carry 286 hard disk power in your brief-case. The Toshiba T1200XE features a large, bright display, a comfortable keyboard as well as many other performance features to enhance your productivity.



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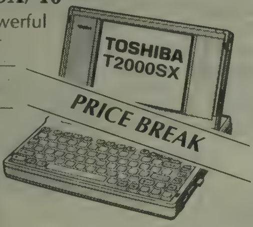
- High performance—386SX™ processor
- Super ergonomics—only 6.9 lbs.



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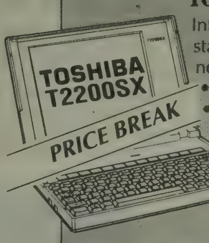
Toshiba T2200SX/40

Introducing the T2200SX—state-of-the-art features in a 5.5 pound notebook format!

- 20 MHz, 386™SX processor
- 40 MB or 60 MB hard drive
- 1.44 MB diskette drive
- 2 MB RAM expandable to 10 MB
- VGA display with 16 gray scales



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TRAVELING SOFTWARE

LapLink Pro is the ultimate laptop file transfer utility available. Serial and parallel cables included.

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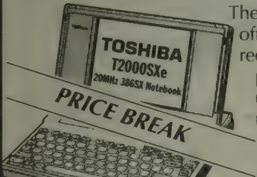
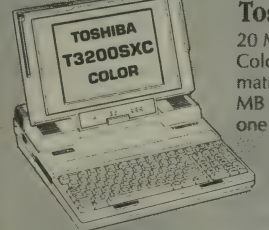
Toshiba T2000SXe/60

The Toshiba T2000SXe/60 offers advanced features required by business and professional power users. Time now to replace your desktop.



2949.



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20 MHz 80386™SX CPU. Color TFT-LCD active matrix VGA display. 120 MB hard disk drive. See one in our Berkeley Store.

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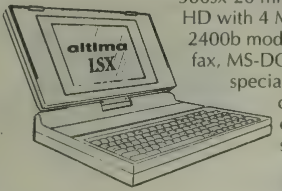
2195.

altima LSX

Award Winning



386sx-20 mhz, 60 MB HD with 4 MB RAM, 2400b modem/send fax, MS-DOS 5.0 and special software collection consisting of six titles.

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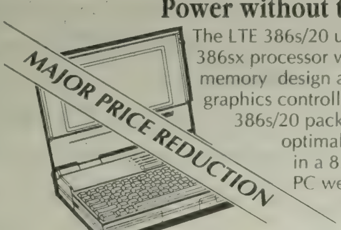
COMPAQ COMPAQ LTE 386s/20

Power without the Pounds



The LTE 386s/20 uses a 20 mhz 386sx processor with cache memory design and a 16 bit graphics controller, the LTE 386s/20 packages this optimal performance in a 8.5 by 11 inch PC weighing 7.5 lbs.

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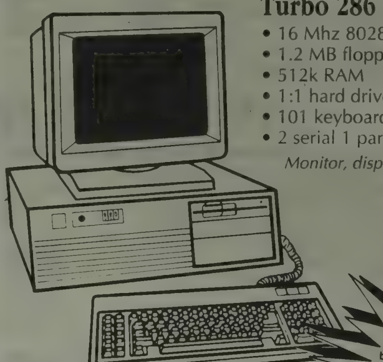

Turbo 286 16

- 16 Mhz 80286
- 1.2 MB floppy
- 512k RAM
- 1:1 hard drive controller IDE
- 101 keyboard
- 2 serial 1 parallel port

Monitor, display card extra

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386SX

- 16Mhz 386SX
- 1 MB RAM
- 1.2 MB floppy
- 1:1 hard drive controller IDE
- 101 keyboard
- 2 serial 1 parallel port

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FREE SOFTWARE "Night Shift" by Lucasfilms ™ Games FREE with Purchase of a Complete* VGA ComputerSystem. Offer good while supply lasts. *CPU and Monitor

386/33 Mhz

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- 1:1 hard drive controller IDE
- 64k cache
- 101 keyboard

895.

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• 4MB RAM upgradable to 8 MB on motherboard; • I/O, 1.2 MB FD, 101 keyboard • 1:1 hard drive controller IDE • Desktop case • AMI BIOS • 64 K RAM cache, upgradable to 256K • 1-32/8 bit slot • 6-16 bit slot • 1-8 bit slot • Weitek math co-processor socket.

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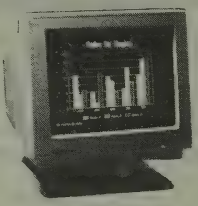
219.

Leading Technology 12" Amber Monochrome

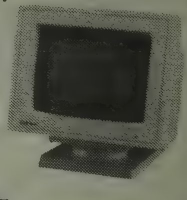
• Non- glare • 720h x 350v with tilt & swivel and cable



99.

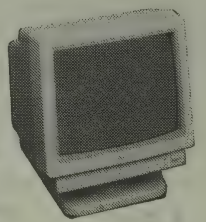
Leading Technology 1480A

• 14" amber flat screen 720h x 350v with tilt and swivel.



119.

Leading Technology 1458V



14" analog multi-frequency 640 x 480, .51 mm dot pitch

299.

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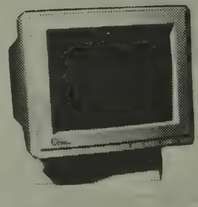

- 14" Super VGA color
- .28 dot pitch
- Includes tilt & swivel base
- 1024 x 768

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STANDARD TECHNOLOGIES VGA 1024	**99.**
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80387-16SX	**139.**
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80387-20	**239.**
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80387-33	**239.**
287XL	**99.**
HARD DRIVES	
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SONY

Sony 1320 VGA

- VGA color monitor
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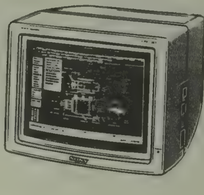

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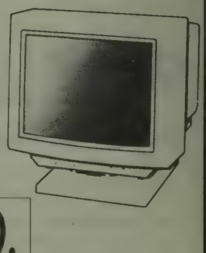
Ideas spring to life in sharp vivid color on this advanced Sony monitor. Sony combines non-interlaced technology with a super fine pitch grille to achieve sharper images without flicker. Compatible with Macintosh
#CPC-1304



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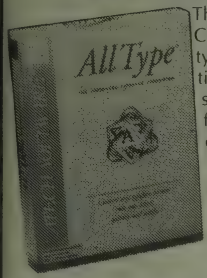
Atech Adobe WordStar Articulate

ATECH SOFTWARE

All Type



The Universal Typeface Converter. Now, use any typeface with any application. AllType converts scalable typefaces to and from all major formats for output on virtually any printer.

59.

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Then create exactly what you imagine. That's the incredible power of Adobe Photoshop™ software. With Adobe Photoshop and your Macintosh®, you can create and produce color and black and white images, right at your desk.

529.

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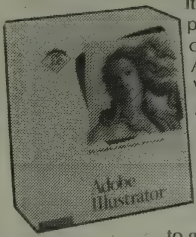
Top Drawer



It takes a desk-full of programs to match all the capability you get with Adobe Illustrator® software Version 3. For starters, Adobe Illustrator still offers top-notch drawing power. Only now there's an expanded toolbox with a feed-back box to guide you along.

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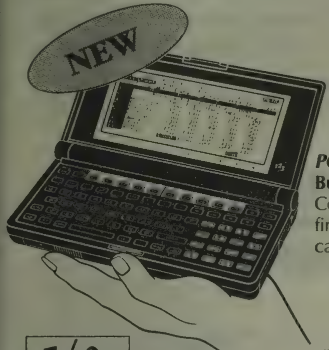

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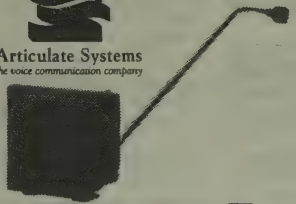

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Control any Macintosh application by voice, using spoken commands to execute any function "normally performed with your keyboard and mouse.

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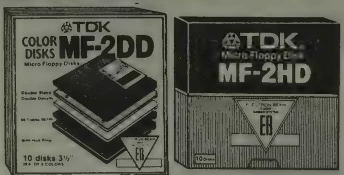

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Point for Point, MacTRAC is Today's Best Value

•MacTRAC is available in versions which support all Macintosh computers • MacTRAC constantly monitors the speed at which the ball is moving • Stationary operation • Cursor drag lock button eliminates the need to hold down a button to drag the cursor • Allows optimum performance for either right or left handed users.

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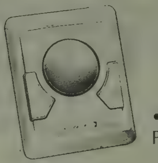

Expert Mouse Gives You Everything You Need

•Serial version for IBM PC compatibles **129.**

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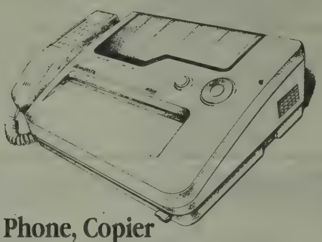

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from page 100

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continued on page 248

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1x8-70	37
1x8-60	38
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4x9-80	150
4x8-70	160
4x8-80	155
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80387SX-16	130
80387SX-20	140
80387DX-20	185
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80387DX-33	195
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83087-25 25 MHz	175
83087-33 33 MHz	185
83SX87-16 16 MHz	120
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8C87-8	$69
8C287-10	79
8C287-12	89
287-20	99
8C387-20	150
8C387-25	155
8C387-33	160
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ULSI	
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4 MB Module	315
1-9 MB Exp Brd	225
4-12 MB Exp Brd	529
DeskPro 286N, 386N, 386SX/20	
2 MB Module	200
4 MB Module	545
DeskPro 386N, 386SX/20	
2 MB Module	225
DeskPro 286N, 386N	
0-4 MB Exp Board	115
DeskPro 386/33SL, 486/25, 486/33L System Pro	
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4 MB Exp Brd	775
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4 MB Module	630
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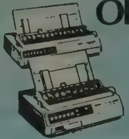

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April 10, 1990
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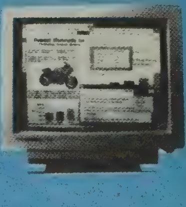

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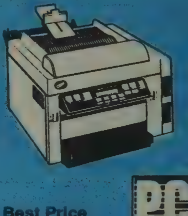

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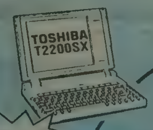

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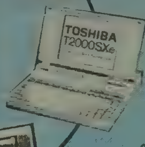

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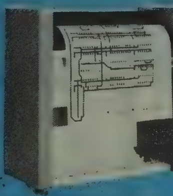

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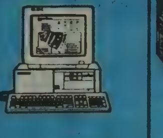

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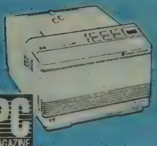

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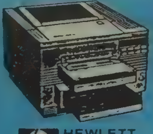

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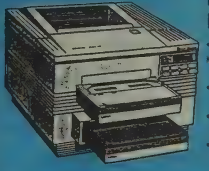

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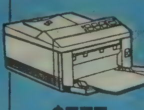

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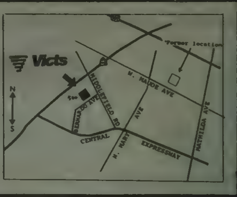

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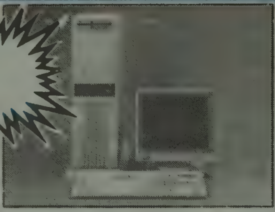

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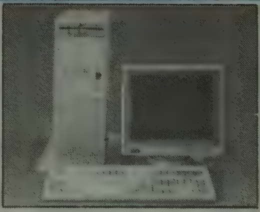

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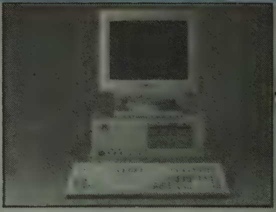

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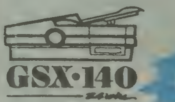

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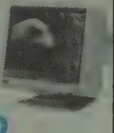

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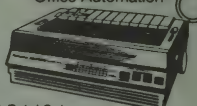

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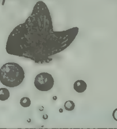

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Consensus? Ha!

In Which Our Contributors Hold Forth On The Best And Worst Of The Past Year, And Rarely Agree...

The MicroTimes Writers' Soapbox Awards For 1991

Anyone who still thinks *MicroTimes* represents a single point of view probably won't think so in a few paragraphs. One writer's favorite is another's target.

For good or ill, practically everything Apple did this year inspired passionate responses, even from people who usually stick to DOS. And by the same token, while our DOS specialists found plenty to like, they rarely chose the same products—the closest thing to agreement was a chorus of praise for DR DOS from Digital Research.

So read on, and find out why it's rarely boring around the old *MicroTimes* office...

LENNY BAILES

SOFTWARE

- **QEMM, v6** (Quarterdeck)

Quarterdeck continues to pioneer new developments in PC memory management with QEMM's ability to hide ROM code above 640K.

- **CorelDraw 2.0** (Corel Systems)

Easily the most sophisticated productivity tool for the PC.

- **Norton Utilities,** v6.01

Continuing to provide new enhancements, the NDOS command shell doubles the command line power of MS-DOS.

- **Hyperdisk 4.21** (Hyperware)

Still the fastest, most flexible, and most reliable disk cache written for the PC.

- **PageMaker 4.0** (Aldus)
- **Apple System 7**

...once the applications catch up to it.

HARDWARE

- **SATISFAXTION Board** (Intel)

Flexible, reliable fax/modem combination that can be used from DOS, inside of DESQview, or in Windows.

- **Tseng 4000ET VGA cards**

From the Orchid Prodesigner IIs, down to the less expensive clones, this chip set developed by Tseng Labs delivers the fastest and most reliable video performance in Windows relatively inexpensively.

JOHN PERRY BARLOW

HARDWARE

- **040 NeXTcube**

I suppose this will surprise few *MicroTimes* readers, but my favorite piece of hardware is still the 040 NeXTcube. Margaret Mead said that one path to wisdom was having a religious conversion and getting over it. So, even if I'm not quite over it, I can thank Steve Jobs for getting me a little closer to wisdom.

I still think that this is by far the greatest computer available to individuals. It's incredibly fast, slick, powerful, and easy to use. It was obviously created by engineers, not marketroids.

But therein lies a bit of a problem. NeXT is such an engineering culture that they seem to regard sales beneath their dignity. These things ought to sell like hot dogs at a ball game. But if NeXT had a hot dog concession, they'd go broke before they'd sully themselves with such a prole endeavor as hawking to the bleachers.

Go out and buy one anyway. NeXT won't make it easy for you, but you can and should do it.

- **NeXTdimension Color Board**

While Apple, Radius, SuperMac, *et al.* struggle mightily to give you a postage stamp of full-motion video on your screen, you can have a full 21" of smooth-moving 24-bit video, easily grabbed, edited, and manipulated. You've just got to get a NeXTcube first. With an i860 doing the graphics processing, this is the fastest video board you can buy for less than $50,000.

All it's missing now is a compression chip. C-Cubed failed to deliver the JPEG chip which was supposed to be onboard, but I have reason to expect that its waiting socket will soon be filled, probably with some form of MPEG chip. And then...video NeXTmail!

- **NeXT Printer**

I suppose I'm stretching the point here. All the processing for the NeXT printer is done in the CPU, and the printer itself is just a dumb Canon engine, so I'm still just praising the computer. Nevertheless, this is still far and away the fastest printer I've every been around. I can get a 400dpi printout of *anything* in seconds.

Of course, it encourages me to print so often that it's an environmental hazard, but I have found a good source of recycled paper.

- **Lapis ColorServer Macintosh Video Card**

This is an inexpensive video card in either NuBus or PDS formats which will drive almost anything with a tube in it: PC VGA displays (most of them incredibly inexpensive), Apple monitors, or monitors by other third-party developers, possibly even your TV set if it's got an RGB connector on it. It is as rapid as any unaccelerated 8-bit board, and the colors are what you expect them to be.

- **Quantum 210 Hard Disk Unit**

I have three of these little hummers, each of them marketed under a different label. They're all fast, compact, and trouble-free. Quantum is a Plus Development Company. During my dreary years as a PC user I had a couple of Plus HardCards and found them to be equally advanced for their day.

SOFTWARE

- **QuickDEX II (And PrintDEX II).**

For all my NeXT-o-mania, my favorite software in the world is still QuickDEX, a Mac program. (Not that I haven't attempted to talk its amiable creator, Mike Greene, into porting it...) Indeed, I've turned my Mac into something like a dedicated QuickDEX server since I do most everything else on the NeXT now.

QuickDEX has always seemed the fastest tool imaginable for storing and retrieving notes, addresses, phone numbers, quotes, and other odd bytes. One can bring it up with a keystroke, enter data, and retrieve that data with a string from any part of it. And it'll fetch quicker than a bored mongrel. It can grab an address from a megabyte of unindexed data in less time than it takes the return key to retract! Hit another key and it dials your phone. It's also smart enough to know when a number is long distance, even if it's in the same area code. The speed and versatility of this thing are truly amazing!

QuickDEX has recently been significantly improved with the release of QuickDEX II and PrintDEX II. The "cards" into which one enters notes or addresses are now scrollable and can accommodate sixteen thousand characters. There is no noticeable diminution of speed.

PrintDEX has now been enhanced to include the sharpest label, envelope, and address book generator I've ever seen. PrintDEX even centers addresses on labels so that addresses of greatly different sizes are no longer a problem.

I simply can't recommend QuickDEX highly enough. It has improved my life more than any computer software since the word processor.

- **NeXTstep**

NeXTstep is everything that System 7 ought to be. It's elegant, intuitive, and stable. While a program might very occasionally seize, it does so without harm to any of the other multitude of processes which might be running. I've seen the whole machine crash fewer than ten times in nearly a year of owning it.

In addition to that, as I've said before, NeXTstep is UNIX with training wheels by Armani. If you've got a hankering to learn UNIX but don't want to suffer, this is the way to do it.

- **KidPix**

This is a Macintosh color painting program for *little* kids, though kids as big as myself have been known to waste hours on it. It was obviously designed by a kid, whatever chronological age Craig Hickman may be.

It isn't mute either. When you put in a letter, the program says the letter if you like. When you move something, you hear a truck running at the speed you're moving it. When you stop, you hear the screech of braking tires. There are *many* ways to erase something, including explosions or having the eraser reveal another image beneath it.

My kids love it. So do I.

- **Eudora**

Eudora is a magnificent piece of freeware by a student at the University of Illinois, Champaign-Urbana, named Steve Dorner. With a UNIX box as its server, it can turn a Macintosh into something very like a UUCP mail subscriber. Eudora automatically polls the host, downloads and uploads whatever mail is waiting on either end, and hangs up. You can then edit your email offline.

Eudora is filled with neat little features, like its ability to attach files of whatever size and nature to email messages, its appending of a "signature" to outgoing messages, sorting to many different mailboxes, and powerful search features to find a message in the piles which may have accumulated. It's available at various ftp sites. Contact Steve Dorner, *s-dorner@uiuc.edu.*

If you don't have UNIX, but have good relations with someone who does, Eudora is a great way to handle mail.

- **Adobe Illustrator 3.0 For The NeXT**

I have struggled for years with the Macintosh version of Illustrator, but I never really had the patience for it. Even with a fast Mac, switching from preview to artwork mode was like

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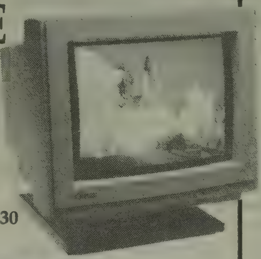

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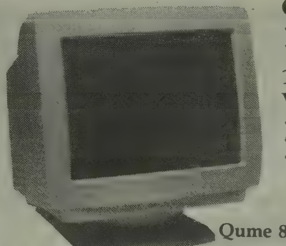

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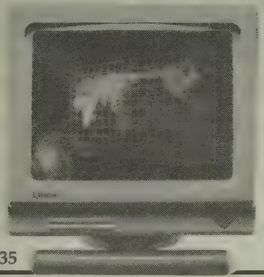

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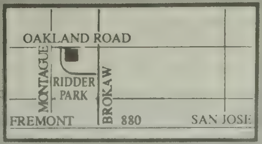

watching paint dry. Then, if you ever got around to printing something, it was prudent to prepare a list of things to do while waiting for the result.

Suddenly, I love Illustrator. With the NeXT version I can *edit* in preview mode, and the switch between preview and artwork is invisibly rapid. I compared printing the same documents and found that the NeXT spit them out, on average, *thirty times faster* than than my SE/30 and LaserWriter NTX. The NeXT version also uses the available color tools, which are both more obvious and more versatile than the Mac's.

- **The New Grolier Electronic Encyclopaedia**

In case you've been wondering whether there would ever be a more compelling reason to buy a CD-ROM than *Virtual Valerie*, one has finally come along. This is the first electronic encyclopaedia I've seen which really works. While not quite as detailed as, let's say, a print version of the *Britannica*, it is far more comprehensive than anything else you're likely to have at your desk. Nice pictures, too, though maybe not as nice as *Virtual Valerie*.

DUBIOUS ACHIEVEMENTS

- **The Mac Classic**

Take a machine which is three years out of date, debilitate it slightly, cut its price a little, stick it in an ugly new case, and call it revolutionary. Same soda pop, new can. The funniest thing about this is that it's selling so well and has such reasonable margins, it may ruin Apple.

- System 7

I used to think of myself as a pretty fair Macintosh hand. But so far it has taken me better than a week to create a System 7 environment which doesn't crash more than about once an hour. By the time I've made all the phone calls to get upgrades of my software, we could be talking man-months. And I still don't know why I'm doing this.

MIKAEL BLAISDELL

I can only come up with one package that I've seen and liked...

- One vote for **TouchBase** (for Macintosh), which may be the best designed software package I've ever seen, from the user's viewpoint.

MARY EISENHART

HARDWARE:

- **The Macintosh PowerBook 170**

Quite simply, the Mac we've been waiting for. True, some of us won't be happy until it's weightless and runs a month on a pair of AAs, but this machine is a triumph of design elegance and great performance. The active-matrix LCD screen is so good it's hard to imagine settling for less; one hopes for an end to the boneheaded government trade policy that keeps it from being widely and cheaply available. Unless you do lots of color and large-screen-intensive work, this could be the only Mac you'll need for years to come. It goes where you go, it does what you want, and it feels so right you forget it's there.

It is, in fact, hands-down Apple's best design achievement since...

- **The Macintosh SE/30**

In the most spectacular instance of Brain Death In Cupertino in recent memory, Apple discontinued this machine and "replaced" it with the inferior-in-every-respect-from-the-bad-keyboard-to-the-slower-CPU Classic II. Nothing intrinsically wrong with the CII as an entry-level machine, but something terribly wrong with discontinuing what's arguably the best-performing (an Apple engineer told me it runs circles around IIfxes in benchmarks), most stable and problem-free machine they've ever made.

If you're shopping for a small, powerful Mac, you will be better off in nearly every respect with a used SE/30 than with a new Classic II. Of course, street wisdom to this effect is also causing used SE/30s to retain an unusually high resale value. If you can find a new one anywhere, buy it.

- **Video Toaster (NewTek)**

In order to do anything with this wondrous little gizmo, you have to have an Amiga. This machine has provided a more substantial reason to Buy Amiga than all of Commodore's marketing efforts since the A100.

- **TelePort A300 Faxmodem (Global Village)**

This nifty gadget attaches to your ADB (mouse/keyboard) port, needs no batteries, has easy-to-use software, telecommunicates at 2400 baud, and sends faxes at 9600. All for less than $150. If it also received faxes, it'd be just about perfect.

SOFTWARE

- **Adobe Photoshop 2.0**

It just keeps getting better. I've used it to edit scanned photos and line art; people who know what they're doing have done simply unbelievable effects. Even if you never handle photos at all, Photoshop could well be the only graphics package you'll ever need.

- **Word Wrapper (Open Designs)**

No Mac is an island. Sooner or later almost anyone who does Mac word processing is going to have to deal with a text file that originated on an alien machine, and come to the horrible realization that non-Mac machines put hard carriage returns at the end of every line. Causing some remarkably hideous formatting problems.

You *could* spend your afternoons hand-removing the CRs, line by line. Or you *could* send John Seward $39.95 for this neat little utility that will do it for you quickly and painlessly.

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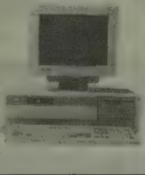

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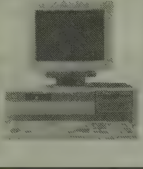
- 3-Button Microsoft compatible mouse
- Mini Tower case w/power supply



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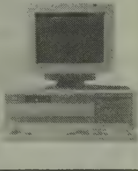
- 3-Button Microsoft compatible mouse
- ATr case w/power supply



VGA	SuperVGA
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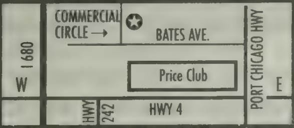

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Cache Installed	64K	64K	32K	-	-
Disk Controller	ESDI w/64K	ESDI w/64K	IDE2	IDE2	IDE2
Hard Drive	330 MB	330 MB	40 MB	40 MB	40 MB
Drive A	5 1/4" 1.2 MB	5 1/4" 1.2 MB	1.2 or 1.44 MB	1.2 or 1.44 MB	1.2 or 1.44MB
Drive B	3 1/2" 1.44 MB	3 1/2" 1.44 MB	-	-	-
Video Card	1024x768	1024x768	800x600	800x600	800x600
Monitor	Goldstar 1460	Goldstar 1460	Goldstar 1430	Goldstar1430	Goldstar 3051
AT I/O (2S,1P.1G)	Yes	Yes	Yes	Yes	Yes
Keyboard	AT Enhanced	At Enhanced	AT Enhanced	AT Enhanced	AT Enhanced
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386SX-H16	AMI BIOS	**170**
386SX-H20	AMI BIOS	**200**
386SX-H25-32	AMI BIOS	**260**
386DX-025	AMI BIOS	**375**
386DX-C33-64	AMI BIOS	**420**
386DX-S40-64	AMI BIOS	**440**
486DX-E33-64	AMI BIOS	**800**

Disk Drives

Chinon Floppy	5 1/4" 360KB/3 1/2" 720 KB	**$55**
Chinon Floppy	5 1/4" 1.2 MB/ 3 1/2" 1.44 MB	**55**

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638	330 MB , 18ms	ESDI	**$799**

Fujitsu

M2612T	90 MB, 19ms	IDE	**$429**
M2614T	180 MB, 19ms	IDE	**725**
M2263E	667 MB, 15ms	IDE	**1599**

Seagate

157A	42 MB, 28ms	IDE	**$199**
1144A	125 MB, 19ms	IDE	**409**
1239A	215 MB, 15ms	IDE	**645**

Toshiba

234	100 MB, 16ms	IDE	**$369**

Western Digital

WD93044	42 MB, 25ms	IDE	**$179**
WD280A	84 MB, 18ms	IDE	**290**
WD2120	125 MB, 16ms	IDE	**360**
WD4200	215 MB, 16ms	IDE	**625**

Disk Controllers

IDE2	2 FD, 2 HD, 16 Bit, IDE	**$15**
IDE4	4 FD, 2 HD, 16 Bit, IDE	**30**
Ultrastor	2 FD, 2 HD, 16 Bit, ESDI 32K Cache	**155**

Keyboards

BTC 5339SX	102 Key	**$35**
BTC 7039R	102 Key	**45**

Monitors

Goldstar 3051	14" VGA 640x480, 0.51mm	**$209**
Goldstar 1430	14" VGA 640x480, 0.31mm	**289**
Goldstar 1460	14" VGA 1024x768, 0.28mm	**329**
Supertron 1411	14" Mono, paper white	**99**
Supertron 1421	14" Mono, amber	**99**
Win 12HC	12" Mono,.amber	**75**
Win 14HC	14" Mono, amber	**99**
Win 1432	14" VGA 640x480, 0.31mm	**289**
Win 1433	14" VGA 1024x768, 0.28mm	**329**
OEM 12A	12" Mono, amber	**75**

Video Cards

MGP	Mono with Parallel Port	**$20**
Oak VGA	800x600, 16 Bit, 256K	**45**
Oak Super VGA	1024x768, 16 Bit, 512K	**65**
Paradise VGA-16	1024x768, 16 Bit, 512K	**90**
Trident 8900	1024x768, 256K Colors, 1 MB	**100**

Modems and Fax Cards

Hedaka 2400 bps internal modem	**$55**
9600 FAX send/2400 internal modem	**95**
MICC 9642PC modem	**160**
MICC 9600PC modem	**385**
MICC 9610SA modem	**649**

I/O Cards and Mouse

AT I/O (2 Serial, 1 parallel, 1 game)	**$19**
Info serial mouse	**29**
Logitech mouse-man-serial	**69**
Logitech mouse-man-bus	**79**

Others

Microsoft Windows 3.0	**$115**
MS-DOS 3.3	**65**
MS-DOS 4.01	**68**
MS-DOS 5.0	**75**

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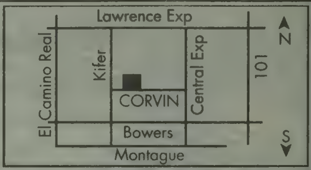

415/929-0924, Fax 929-1425)

- **MicroPhone II v3.01** (Software Ventures)

I don't use a tenth of its capabilities, but in terms of features, interface design, and general good behavior, this is still *the* telecommunications package for Macintosh.

FileMaker Pro (Claris)

It's been out a couple of years now. It's great. The layout design options compare favorably to a lot of DTP packages of former years. I wish it had relational capabilities, and I'd cheerfully pester Claris for hours about features I'd like to see in the next release, but for a versatile, accessible-to-everybody-in-the-office database, FMPro continues to be the one to beat.

MacWrite II (Claris)

If it had no other redeeming qualities at all (and it has plenty), this program would be worth owning just for the beautiful, easy, intuitive, elegant way it handles mailmerge.

PAUL HOFFMAN

Five Best Ways To Understand The Low End Of The Microcomputer Industry In 1992

- Spend at least an hour a week on a local bulletin board system, preferably run by a local user group. Find one where the ratio of wizards to beginners is about 1 to 4. The best type is one where many kinds of computers are discussed.
- Play five different games on a Nintendo, GameBoy, or other home game machine. Note how many rules each game has and how simple the user interface is. Compare this to the business software you use. (Try not to become addicted to the games.)
- At least once a month, ask one of your relatives why they don't use a computer, or why they use their computer for so little. Be sure to ask people of all ages and try not to suggest anything as you ask. Remember that blank stares count as valid answers.
- Subscribe to a low-end computer magazine like *Computer Shopper* or *AmigaWorld*. Read the columns every month. Compare the ads to the high-end magazines and note who is being spoken to.
- Volunteer to help your favorite nonprofit organization or your church to use their computer better (or to start using a computer). Be sure to help train the clerical worker or volunteer on how to use the software. Give them your home phone number in case of emergencies.

Five Things To Do When You Think The Computer Industry Is Doing Just Fine In 1992

- Run a popular program like 1-2-3 or WordPerfect under Windows without reading the special Windows instructions.
- Explain to someone how to install a modem and connect to another computer on the first try.
- Justify the most common system purchase decision of three years ago (buying a system based on a fast 80286 or a slow 80386).
- Tell someone the choices they need to make if they want to add a different font for their printer.
- Call five software technical support lines and ask how you can export data from their programs to a corporate mainframe.

ED KAHN

- **Microsoft MS-DOS 5.0**

Finally, an operating system that goes farther towards offering the basics.

- **Hotline**

Still the best way to organize your phone chores.

- **Ermasoft Laser Envelopes**

A wonderful program for printing envelopes on a laser printer. (818)707-3818.

- **CD Porta-Drive**

Finally a CD-ROM drive that works on portables. (408)754-8500.

- **Canon BJ-10e Printer**

The best portable printer.

- **Stacker**

A good utility for nearly doubling the capacity of a hard disk. Comes in both hardware and software versions. (619)431-7474.

MATTHEW LEEDS

I offer up nine best and one worst.

NINE BEST

- **Toshiba 3301 CD-ROM drive**

Small, fast, well priced. This is my current favorite for a CD-ROM drive.

- **Art Department Professional** (ASDG)

The image processing tool for serious Amiga users. This is the one to get for serious work. ASDG has been in the Amiga market from the beginning and will be there with support when you need it. (ASDG, 925 Stewart Street, Madison, WI 53713)

- **Image Finder** (Zardoz)

Keeping track of hundreds, if not thousands, of images on your Amiga can get tricky. Image Finder does it for you almost automatically. (Zardoz, 6114 LaSalle Avenue, Suite 304, Oakland, CA 94116)

- **Adobe Photoshop 2.0**

Reminds me of a spaghetti sauce commercial—whatever you can think of, it's in there. Mac users are blessed to have such an incredible tool at their disposal.

- **Hewlett-Packard DeskJet Printers**

Far and away the best low-cost black-and-white printer for any computer. Dead quiet, reasonably fast, supported by HP, and now featuring non-smearing ink.

- **Macintosh PowerBook 100**

Just about the perfect low-end laptop computer. Apple finally got it right. Now if they could just offer a

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- **Quantum Hard Drives**

You may not know it, but if you've got a 3.5"SCSI hard drive, it is most likely from Quantum. Proof that some domestic technology is still the best.

- **Sony CCD-TR81 Hi8 Camcorder**

You may not have seen one of these yet, but boy are they great. The first palm-sized camcorder in the Hi8 format. Sony got this one right.

- Mountain Bikes

Doesn't matter who makes them. A great escape from the keyboard.

WORST:

- **Commodore's Marketing**

...or lack thereof. Perhaps this is too easy a target, but it's just so damn embarrassing.

FRED LIEBERMAN

- **3 In Three**, By Cliff Johnson

Witty, fiendishly clever, and thoughtful puzzle-game. Cliff Johnson's games have not only entertained and exercised the little grey cells, but also introduced new forms of puzzles that are invented in the idiom of the computer, not just ported from other media.

- **Thought Pattern v1.2**, By Steve Zagerman (Bananafish Software)

The company name deserves an award in its own right. An innovative approach to information management, with almost unlimited flexibility. Free-form text items can be recalled by keywords and groups, or searched internally; keywords can also attach to documents created by other applications, so a random thought about topic X can be cross-referenced to MS Word texts or spreadsheets, or whatever. Very hard to describe such an open-ended tool...

- **System 7**

Not everybody's cup of tea, but a significant evolution of the GUI, with still scads of unrealized potential.

- **FrameMaker For The Mac** (Frame)

Still not perfect, but a large step towards the Major Leagues in integrated, cross-platform DTP.

- **Kid Pix** (Brøderbund)

A joy-filled creative environment for even the youngest Mac generation; almost a sufficient reason to buy a color system.

- **Super Boomerang**, By Hiroaki Yamamoto

Now part of Now Utilities. Simply indispensable system extension.

WOODY LISWOOD

- **The Far Side Computer Calendar**

Numero UNO (For DOS. Mac version due soon.)

- **DR DOS 6.0** (Digital Research)
- **AMI PRO 2.0** (Lotus)
- **1-2-3 For Windows** (Lotus)

About time it got here.

- **On Target** (Symantec)

Easy-to-use Project Manager.

- **Winfax Pro**

Great fax-printer driver for Windows.

- **Adobe Type Manager For Windows**

Makes the screen worth looking at.

- **WINGRAB**

Makes addressing envelopes a no-brainer.

- **1DIRPLUS**

Still the best DOS shell, in my opinion.

- **Norton Utilities For Windows**

Brings Norton's greatness to the GUI environment.

- **WINDOWS 3.0.1**

Makes it all happen.

- **CrossTalk For Windows**

The way communication programs should be made.

DAVID MORGENSTERN

THE BEST SOFTWARE

- **Super Boomerang 3.0** (part of the Now Utilities 3.0)

I love utilities better than candy. This is one of the best additions to any Macintosh desktop. I use it constantly, and the recently upgraded version allows users to search for any text string inside a file.

The rest of the programs in the Now package are useful. I especially like NowMenus, which makes your Apple menu hierarchical, and DeskPicture, which throws a color background picture (or pictures) on your desktop.

Hiro Yamamoto, the author, gave his farewells to the BMUG crowd in September. He's joined the Cal Tech faculty, and is moving to Pasadena. Don't be a stranger!

- **Disinfectant** (The Latest Version)

This is still the best antiviral software around—and it's still free! Saint John Norstad does most of the coding, with help from an international team of helpers. The latest version, and a number of other informative computer virus information, is available for $4 from the BMUG office.

- **EndNote Plus** (Niles and Associates)

This bibliographic database is an essential component of a student's desktop. Notes are taken in the program, then used to create footnotes in your word processor and generate a bibliography.

Anyone responsible for Macintosh support, or purchasing, will find Niles' MacInfo product invaluable. It's an index of all the articles in *MacWeek*, *MacUser*, and *Macworld* magazines, using EndNote Plus. The citations have phone numbers and other everyday information, so you don't have to dig out the particular issues for little bits and pieces.

- **MicroPhone II, v3.01** (Software Ventures)

Even though we're promised a new version every Macworld Expo, this program is still the most easy-to-use communications software around. It comes with great documentation, and lots of pre-built templates. MicroPhone makes logging on to user-unfriendly bulletin boards and electronic services almost fun.

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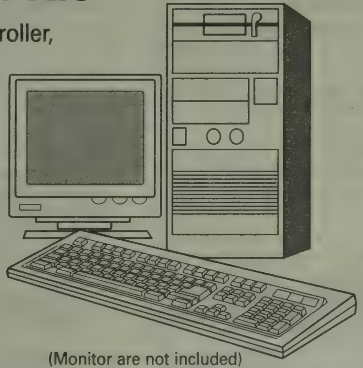

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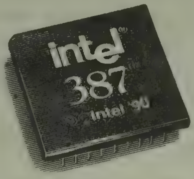

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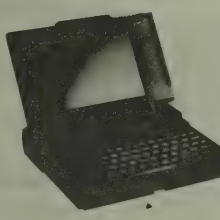

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- More After Dark (Berkeley Systems)
Screen-saver technology reaches new heights in this set of After Dark add-ons. Ben Haller's Lunatic Fringe game module is particularly addictive. BMUG has a five-disk set of After Dark modules too. It's $15 from the BMUG office. (Voice: 510-549-BMUG, Fax: 510/849-9026.)

THE BEST HARDWARE

- **PowerBook 140**
Apple's new Macintosh portable. I really want one of these, but both my Quicken checkbook balance and my wife's longstanding request for a new couch, are persuading me otherwise. If only my Lotto numbers will come through!
- **US Robotics Dual Standard HST**
It's not just a modem, it's the Rock of Gibraltar. The Dual Standard has twice the goodies (V.32 bis and V.42 bis) at twice the expense, but it's fabulous.
- **MacVGA Adapter For The Macintosh LC**
This lets LC owners use lower-cost VGA monitors, instead of the Apple 12" models. It's available from the BMUG office for $15 in kit form, and $25 assembled.
- **Silicon Sports' Wrist Pads**
They're colorful, inexpensive, and they work.
- **Hardware On The Soft Side—The BMUG Tie-Dyed T-Shirt**
It's always in style, and marks the wearer as an individual of impeccable style and brains.

MIKE MARKOWITZ

TOP TEN MACINTOSH PRODUCTS OF 1991

- **Best Upgrade To A Beloved Standard**
Excel 3.0 (Microsoft)
This revision of the dominant Macintosh spreadsheet is a textbook example of how a software revision ought to be done: It provides seamless continuity with earlier versions, but lots of detail improvements and user-helpful new features, like the Auto-sum button. The icon bar in Excel 3.0 makes the look and feel of the Mac version closely match the Windows version.
- **Best Game**
RoboSport (Maxis)
You "program" battle robots and send them into the arena to fight other robots. Good tactics usually prevail over brute force. A brilliant example of how good the Mac can be as a thinking player's game machine.
- **Best Integrated Software**
Claris Works (Claris)
Very slick "frame-based" technology lets you click and drag to create a spreadsheet in the middle of a word processor document. Claris's XTND translators let you import or export practically anything. In one reasonably priced, modestly sized package, Claris Works provides most of the functionality of MacWrite II, MacDraw II, FileMaker Pro, and Resolve, plus basic telecommunications.
- **Best Output Device**
StyleWriter Printer (Apple)
It may be slow, and it was released before its driver software was tweaked just right. The available TrueType fonts may not be that great either, but this quiet, inexpensive little replacement for the ImageWriter represents a radical rethinking of what a home computer printer ought to be. Now if they could just add color.....
- **Best Input Device**
MicroTek 600ZS ScanMaker
24-bit color, 8-bit grayscale. 600dpi. $2195 list. Higher resolution, lower cost. Nuff said. (MicroTek, 800/654-4160)
- **Best Storage Device**
Bernoulli 90 Transportable (Iomega)
The Syquest mechanism may be cheaper and available from more vendors, but it's hard to argue with the technical superiority of this reliable, well-supported drive. ($1198 list, Iomega, 800/777-4045, 801/788-1000)
- **Best Operating System Enhancement**
QuickTime (Apple)
Almost too late to save the beached multimedia whale, Apple finally laid down a robust software architecture for compressing and managing sound, video animation, and "time-based" events. The true significance of this may not become apparent for several years, or until digital-video consumer products become universal. Aren't standards great? Especially when you have so many to choose from...
- **Worst Operating System Enhancement**
System 7.0 (Apple)
The triumph of marketing hype over software engineering, this bloated monstrosity provides tons of gimmicky features nobody needs (Bubble Help, Aliases, Publish/Subscribe, etc., etc.) at the cost of performance decrements nobody wants (slower file copying, "mandatory Multifinder"). On the positive side, 7.0 has finally organized the scandalous mess that the System Folder had become. Go back and do it over, Apple, and let's hope you get it right by v7.09...
- **Best Utility**
Compact Pro (Bill Goodman)
Macintosh files and applications take up too much space. For years we depended on Raymond Lau's StuffIt to squeeze oversized items into 800K floppies. StuffIt was so good that it was hard to imagine anything better, but the superior performance of Compact Pro has rapidly established it as a standard.
- **Best Appearance By A Macintosh In A Music Video**
Mac IIci with Apple 15" portrait monitor in "Rock the Cradle of Love" by Billy Idol. Apple's guidelines for using their equipment in movies are that the computer may not explode or hurt people. Don't you wish car companies had the same policy?

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SOFTWARE:

For The Mac: *Real* Mac users use Adobe Type Manager (ATM) and Adobe outline fonts. (I wouldn't even think of getting Apple's TrueType.) (Adobe Systems, 1585 Charleston Rd., Mountain View, CA 94039)

And is there anyone who *doesn't* use Berkeley Systems' exquisite After Dark (v2.0) screen-saver? (Berkeley Systems, 2095 Rose St., Berkeley, CA 94709) There's a comparable version for PC-Windows, too!

For high-end desktop publishing (DTP), I much prefer QuarkXPress (3.0 or later) over PageMaker. (Quark, Inc., 300 S. Jackson, Denver, CO 90209)

For both standalone and networked backup, Dantz's Retrospect (1.3) is powerful, scriptable, reliable, outstandingly supported—and the best backup and archiving system I've ever used. (Dantz Development, 1400 Shattuck Ave., Berkeley, CA 94709)

For program development, I continue to be particularly delighted with Symantec's THINK C (5.0) and THINK Pascal (4.0) systems. They fully support System 7 and are much, much more than simply excellent production compilers. They are beautifully integrated, point-'n'-click compiler-builder-tracer-debugger environments—absolutely the best production programming tools I've ever used. (And I first programmed computers in 1960, and began working as a programmer in 1968.) Of course, the ultimate standalone Mac tracer-debugger is Steve Jasik's MacNosy. (Jasik Designs, 343 Trenton Way, Menlo Park, CA 94025)

Back to Symantec: They are perhaps my favorite source for Mac applications. They are competitively priced, have good support, and are honchoed by one of the most principled, ethical guys in the industry, Gordon Eubanks—and that *does* make a difference. Their GreatWorks is an excellent integrated applications package. SAM for virus protection, SUM for disk recovery, and Norton Utilities for general disk-mucking have saved me and helped me on numerous occasions. (Symantec Corp., 10201 Torre Ave., Cupertino, CA 95014)

An Un-Recommendation: I don't expect to get Apple's System 7, until they adopt less arrogant licensing requirements. I don't need software that prohibits use on clones, or outside North America, or in a rental; that fails to tolerate hundreds of older programs; fails to use the 680XX's invaluable protected mode—and comes from a company that promised a 32-bit upgrade path in its advertising but refuses to offer low-cost clean ROMs to replace their dirty old ROMs.

For The PC: For the numerous, *competitively* priced PC platforms, I am especially attracted to DR DOS 6.0 in place of the "now-obsolete" MS-DOS 5.0—that's *months* old. I have inadequate personal experience to prove it, but I tend to believe the several responsible reports saying that Windows runs faster and crashes less often under DR DOS. Also, Digital Research founder Gary Kildall is one of the "good guys"—the folks deserving our support, lest we end up with only the alternative. (Digital Research, Inc., P.O. Box DRI, Monterey, CA 93942)

I am particularly enchanted by GeoWorks' GEOS system. It combines a beautiful Mac/Windows/OpenLook/Motif-like graphical user interface (GUI) with a series of programs that do most of the mainline things most folks want to do. It has true multitasking, is able to run almost all DOS programs, is cheap, blazingly fast—and it all runs in as little as 512K. Especially delightful for notebooks and laptops. (GeoWorks, 2510 Shattuck Ave., Berkeley, CA 94704)

Borland's C and Pascal systems continue to be my favorite production programming tools for the PC—Turbo C++ 2.0 (DOS), Borland C++ 2.0 (Windows), and Turbo Pascal 6.0 (DOS)/1.0 (Windows). Their Paradox 3.5 (DOS—Windows version in progress) continues to be my favorite PC database system. These products are well designed, well implemented, well supported, and super-inexpensive. Also, Borland founder and CEO Philippe Kahn—reportedly the self-proclaimed "Barbarian of Software"—is delightful and directs his "barbarism" only against high-priced and low-supported competitors, to the benefit of computer users seeking minimal cost and maximum quality. (Borland International, 1800 Green Hills Rd., Scotts Valley, CA 95066-0001)

Info-Sources: Manuals from manufacturers and software publishers are much better than they used to be, but I generally turn to even-better documentation available from *some* of the independent book publishers. Especially noteworthy:

Addison-Wesley is always the first place I look for excellent documentation of Mac products—just as I used to turn to them first for outstanding math texts while teaching mathematics in a previous incarnation, decades ago. (Addison-Wesley Publishing Co., Route 128, Reading, MA 01867)

For PC-related books—especially for anything about Borland's dandy software deeds—Osborne/McGraw-Hill is always the first place I look. (Osborne/McGraw-Hill, 2600 Tenth St., Berkeley, CA 94710)

For *anything* about PostScript or the HP LaserJet family, Peachpit Press is where I turn first. Excellent documentation. (Peachpit Press, 2414 Sixth St., Berkeley, CA 94710)

These publishers are really meticulous and demanding of quality in the manuscripts they publish.

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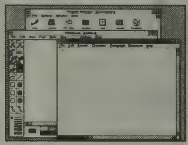

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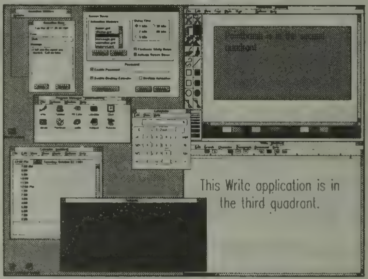

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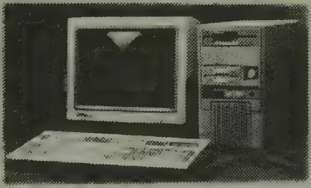

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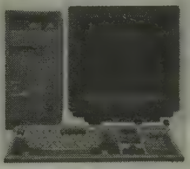

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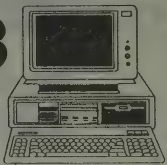

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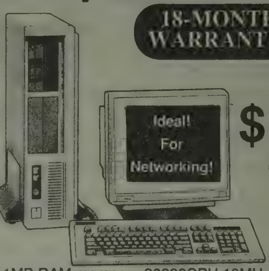

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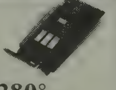

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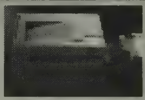

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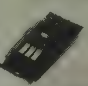

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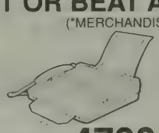

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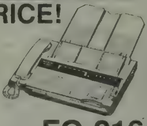

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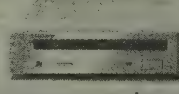

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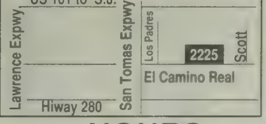

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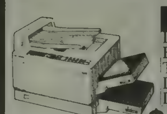

Accessories for 4455/4450i	
Legal Tray	$49
Envelope Tray	.69
Toner	39
Drum Unit	149
Developer	99

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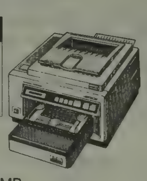
Developer	89



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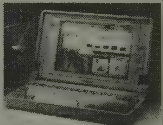

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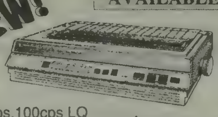

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- 1 year limited warranty

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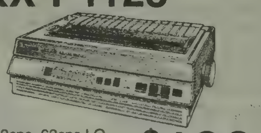

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KX-P1180 .... $144

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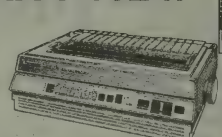

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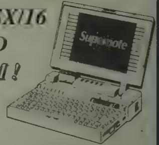

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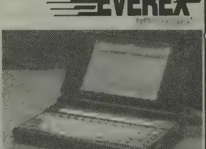

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HARDWARE RECOMMENDATIONS

I've been using tiny 4mm DATtape cassettes for backup. For a long time, I avoided 'em, thinking they weren't yet reliable enough. However, ARDAT's Python DATtape drive has performed flawlessly. It has already saved me from several moments of personal or system imperfection. Reportedly, it's the first unit designed and built from the ground up for heavy computer use—rather than being just a music DAT transport with a scuzzy (inter)face.

I needed a newer, bigger-capacity, small-size, fast, SCSI disk; I researched it widely, and grabbed a Maxtor 330MB drive. Tiny, quiet, fast, reliable—outstanding!

Both the Maxtor disk and the DATtape drive came from APS—where prices are hyper-competitive, and warranties are outstanding. Their support is excellent, customers are treated as though they deserved service, and the boss still thinks he has to work for a living. Neat folks; no nonsense. (Alliance Peripheral Systems, 2900 South 291 Hwy., Independence, MO 64057)

I have two modems with which I am pleased. Though both are now "obsolete"—being last year's models—I will certainly return to their makers when I go for more modems. For a straight modem—2400 baud or better—I like Supra; low cost, reliable. (Supra Corp., 7101 Supra Dr. SW, Albany, OR 97321) For a faxmodem, I like Abaton. Their modem designer is a mainline wizard, and they have the major advantage of several years' experience in the difficult world of fax-for-computers. In both cases, I prefer an RS-232 interface that can easily migrate to any platform.

I've been similarly delighted with Abaton's 300/GS grayscale flat-bed scanner—quality scans, paper-and-book-scanning capability, and it's competitively priced. (Abaton/Everex, 4831 Milmont Dr., Fremont, CA 94538)

Finally, about PCs versus Macs: Loyalty and support are reciprocal. Apple's increasing arrogance with Mac customers is, sadly, pushing me to move much of my work back onto a PC—even with its chaotic hardware and ill-disciplined software interfaces. It'll probably be an NEC machine—the folks who originated Multisync monitors and desktop docks for removable computers and CD-ROM drives. Good gadgets—and significant innovation deserves support. (NEC Technologies, Wood Dale, IL 60191-1094)

WAYNE VACCO

HARDWARE:

• MicroSolutions BackPack 100MB Portable Hard Disk

A veritable oxymoron: The littlest big drive you can use to haul your ASCII across a parallel port. Fast, too. Pacific Rim's pocket-sized 20MB version is even smaller, but still needs to have some bugs worked out of it. Big potential for both.

• Macintosh Classic

It's brought the Mac to a lot of users who had been left out, without the expandability pretensions of the underpowered and scantily slotted IIsi and LC models.

• Memory

Everybody wants a big one. Now we can all afford to have one.

• Outbound Notebook

Compatible, fast, and relatively cheap, with a good display. The Mac buy-back notice makes you wonder: Why does Apple make Outbound take the ROMs out of a Mac for every sale (instead of just selling them a set) when software developers are screaming for Apple to increase the installed base? Net gain: zero! Maybe if Apple added a few more devoted followers by selling Outbound ROMs directly, its software evangelists would have an easier time keeping its flock together.

• Those Low-Power Processors

Both Intel and AMD have these, and they could really change portable computing. Imagine if somebody writes software that dynamically monitors workload and variably adjusts their clock rate depending on the momentary workload. We're talking efficiency here.

SOFTWARE:

• Adobe Photoshop 2.0

The ultimate state of the software developer's art. Believe it or not, this is the same technology that's responsible for some of the mind-bending scenes in summer blockbusters like *The Abyss* and *Terminator 2*. Frames from these movies are actually imported into the Mac and edited with Photoshop.

• Disk Technician Gold

You've heard of vaporware, now there's vacationware. Although it isn't really on vacation, Prime Solutions hasn't shipped product since October 1990. That's when problems were discovered in a new release, and the company has been working to get it right ever since. Now Prime's not only getting ready to come back, but to move to the top of its category with a breakthrough version of Disk Technician. The long-delayed release is the first hard disk fixer to work all the time—in the background. It would seem that data has never been safer.

• Apple's System 7

Nobody's perfect. If you can stand the overhead, it makes life a lot more interesting.

• OS/2 2.0

Nobody's operating system. But getting close. Promised by the end of the year. The prospect is so exciting that I still haven't gotten tired of waiting.

• QuickTime

Not yet a product, but already showing more promise than most. You should see what a WordPerfect Mac

continued on page 266

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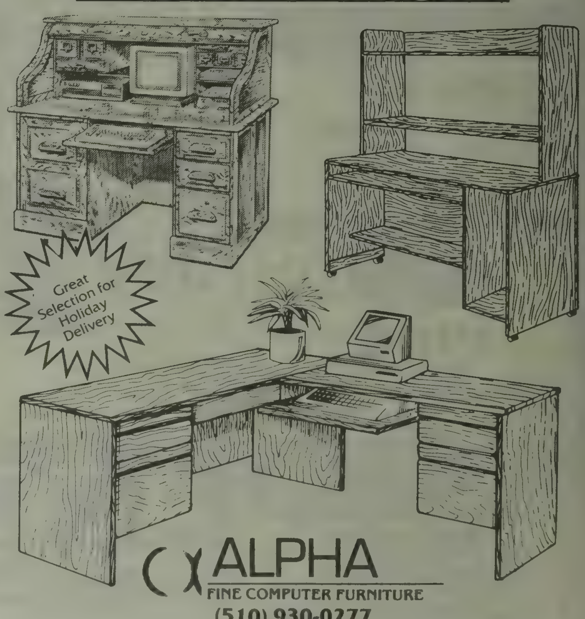
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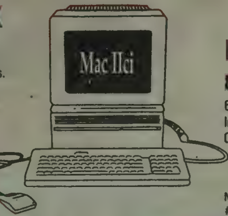

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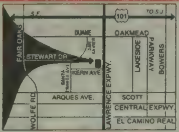

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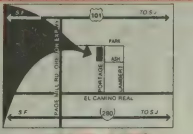

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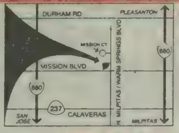

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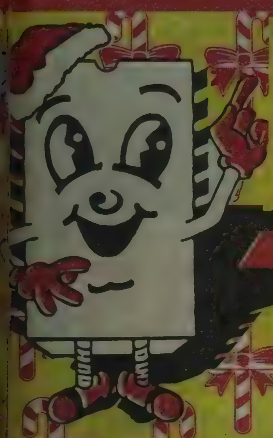

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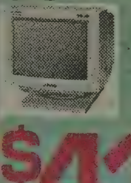

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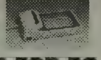

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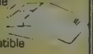

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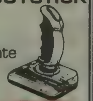

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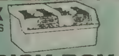

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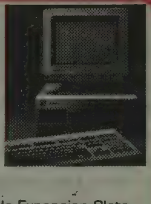

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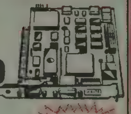

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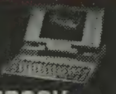

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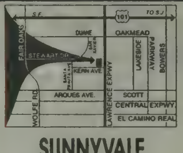
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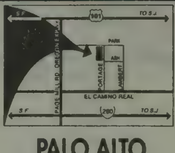
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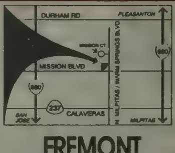
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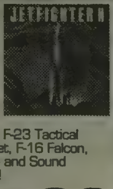

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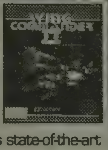

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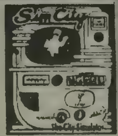

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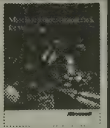

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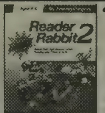

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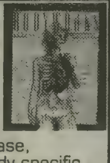

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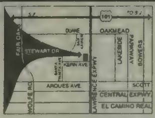

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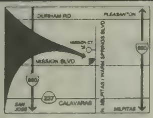

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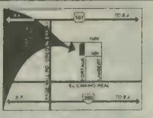

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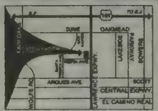

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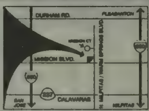

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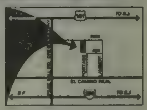

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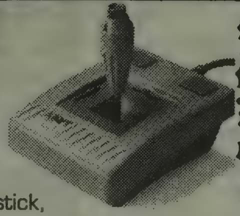

KC3 is Krafts precision analog joystick, great for entertainment, education and graphics software! KC3 is compatible with Apple IIc, IIe IIgs and IBM PC, XT, AT, PS/2 and compatibles. Features include "free-floating" or "spring-centering operating modes, dual-axis centering controls and left and right-handed fire/function buttons. An additional third stick-tip button enhances control. Five year limited warranty.

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KI30

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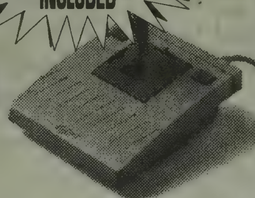

A precision analog joystick to meet all your needs, the KI30 iS great for graphics, business, education and entertainment software! KI30 is compatible with IBM PC, XT, AT and compatibles. Features include "free-floating" or "spring-centering operating modes, dual-axis centering controls. Comes with Kraft's joystick utility software "JSOFT" Covered by Kraft's Five year limited warranty.

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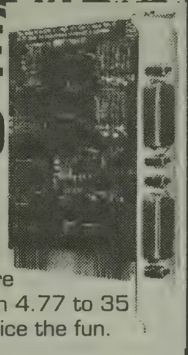

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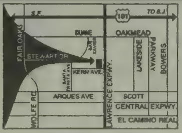
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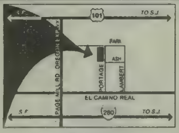
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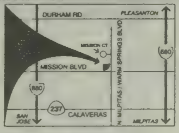
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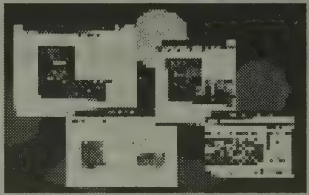

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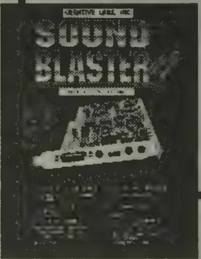

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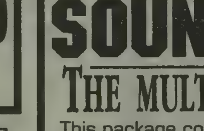

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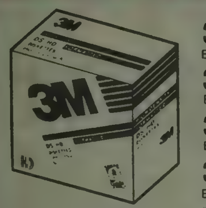

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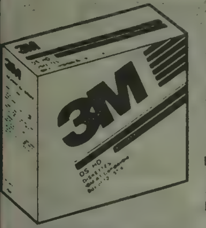

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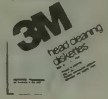
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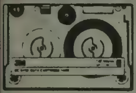

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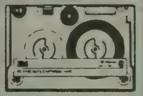

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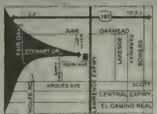
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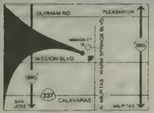
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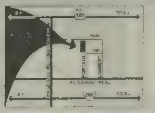
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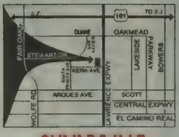

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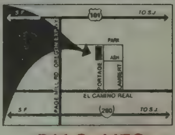

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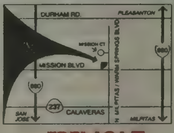

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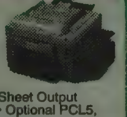

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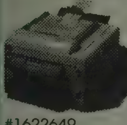

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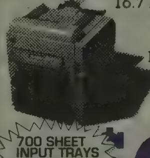

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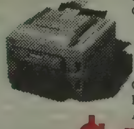

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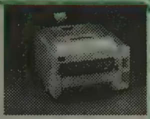

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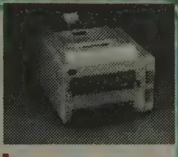

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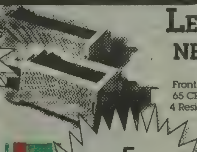

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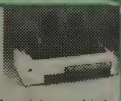

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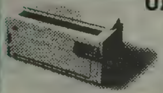

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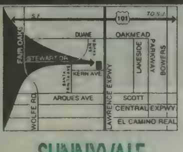

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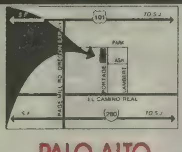

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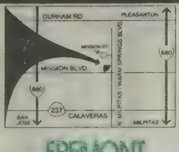

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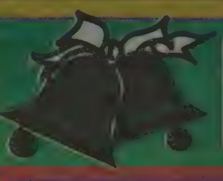

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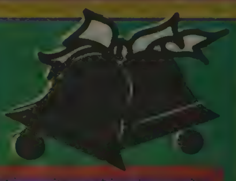

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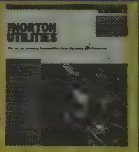

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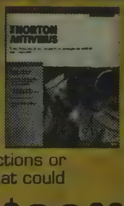

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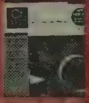

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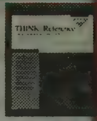

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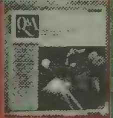

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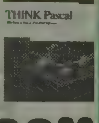

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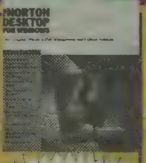

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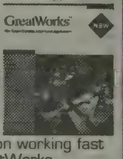

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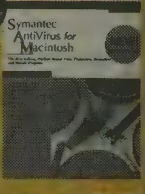

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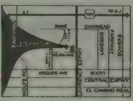

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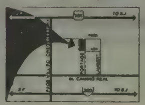

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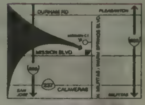

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To succeed in business you need the right tools!

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QuickC for Windowsis the first Windows-hosted development system that lets you edit, compile, and debug in one integrated environment.
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Microsoft Windows Software Development Kit 3.0

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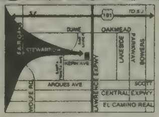

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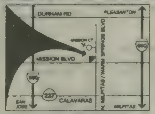

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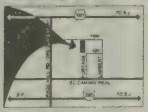

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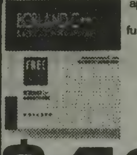
BORLAND C++ & APPLICATION FRAMEWORKS



Borland C++ & Application Frameworks includes everything you need to develop Windows and DOS applications. In just a few lines of code, ObjectWindows gives you a fully functioning Windows application. Inherit windows, menus, dialogs and more. Turbo Vision for DOS gives you similar capability for a character-based environment. Complete with source code.

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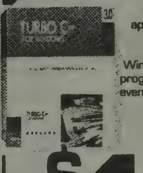
TURBO C++ FOR WINDOWS



TURBO C++ for Windows is the fast easy development system for creating C or C++ applications for the Windows environment. It includes the ObjectWindows application framework which provides a ready-made Windows user interface. It also includes visual programing tool that make programming easy, even for someone who has never programmed for Windows before.

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BORLAND C ++ 3.0

Borland C++ is the professional development system with full support of ANCI C and C++2.1 (with templets). It includes a powerful global optimizer, with enhanced performance, a Window-hosted development environments and powerful visual programming tools. ObjectBrowser lets you graphically see relationships in your code; EasyWin converts DOS applications to Windows just by recompiling, and Resource Workshop lets you create great Windows resource visually. For C. and C++ programming in Windows or DOS

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ObjectVision is the easiest way to create Windows applications. You simply draw your interface, add logic and connect your data - ALL WITHOUT KNOWING ANYTHING ABOUT PROGRAMMING. ObjectVision is a powerful tool that combines popular features from spreadsheets, data bases, forms products and front-ends into an easy-to-use WYSIWYG application too for Windows users and developers.

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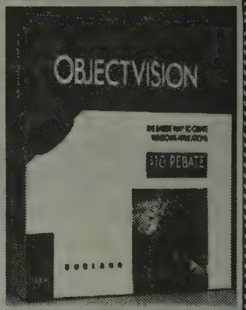
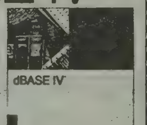


dBASE IV



dBASE IV provides both beginning and advanced users with solutions to a wide range of PC data management needs from simple customer list management to complete accounting and inventory systems. It brings significant productivity forms to both users and application developers. #1523546

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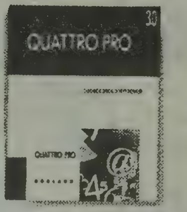

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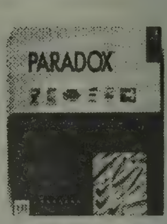

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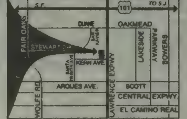

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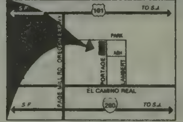

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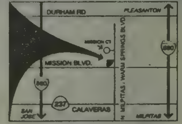

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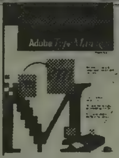
Adobe *Type Manager* for Windows



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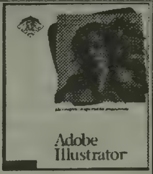
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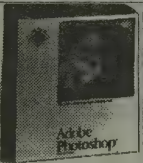
Adobe Photoshop


Adobe Photoshop

Starting from scratch or a scanned photo, if you can imagine it, Photoshop can produce it. Photoshop is MacUser magazine's Software Product of the Year and allows you to create or manipulate any image is 24 bit color, grey scale or black and white.

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For Windows

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$62.99

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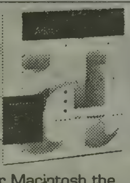
AdobeType Library



Different messages need different type solutions. No matter what your message, The Adobe Type Library has the right typeface for you. With over a thousand fonts, and several special packages priced to save you money, The Adobe Type Library can make your PC or Macintosh the high power communication tool it should be. Fry's stocks all the best selling faces of the Abode Type Library for both the Mac & PC.

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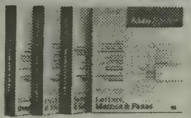
ADOBE TYPE SET COLLECTION


Letters, Memos & Faxes

The new Adobe Type Set *for business* packages are special collections of typefaces chosen specially for a variety of popular business applications. The four packages include *Letters, Memos & Faxes, Overheads & Slides, Invitations & Awards,* and *Spreadsheets & Graphs.* Available in both Macintosh and windows versions, each package contains eight to ten typefaces and the award winning Adobe Type Manager (ATM), a program that keeps type sharp and clear, at any point size, onscreen or on paper. Also included is a helpful 32-page booklet that shows how to use the typefaces most effectively allowing even novices to create professional-looking business communications right from the start.

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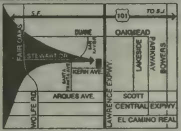
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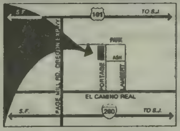
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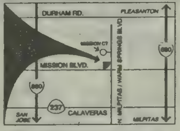
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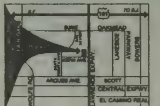

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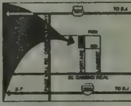

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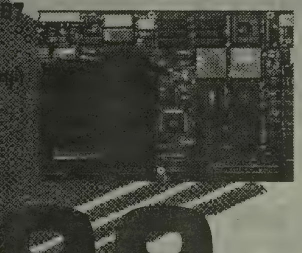

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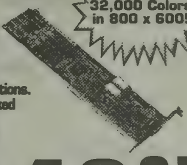

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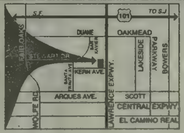
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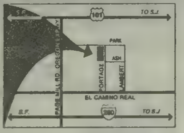
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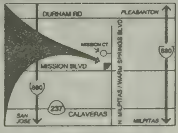
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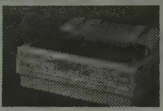

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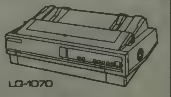

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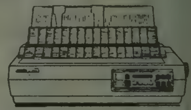

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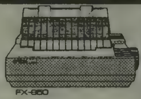

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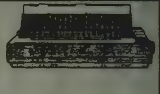

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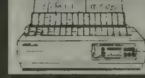

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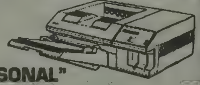

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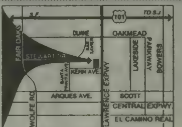

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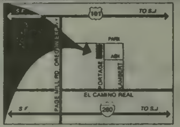

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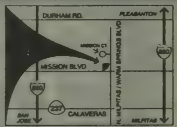

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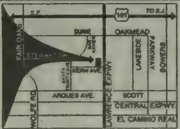

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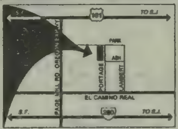

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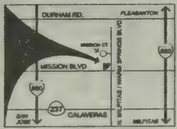

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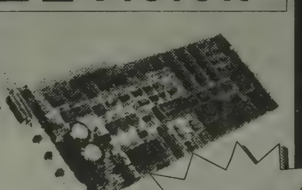

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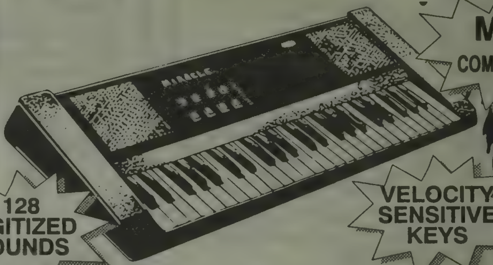

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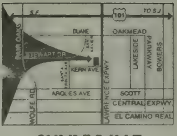
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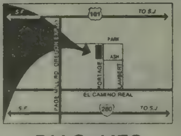
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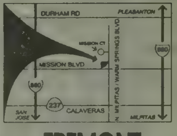
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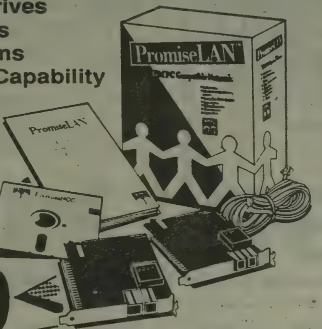

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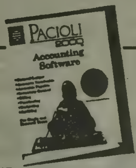
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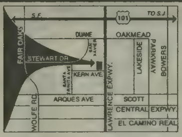
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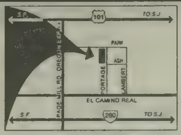
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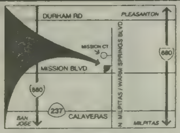
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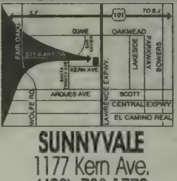
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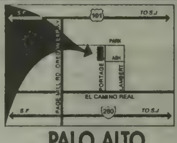
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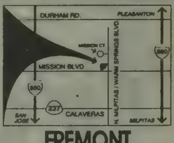
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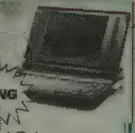

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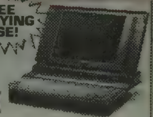

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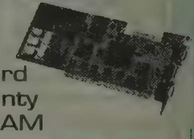

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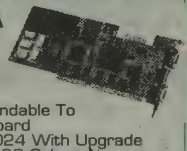

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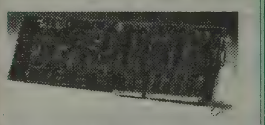

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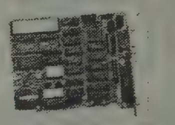

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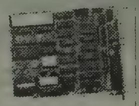

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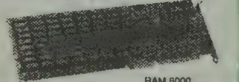

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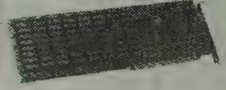

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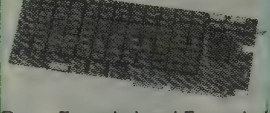

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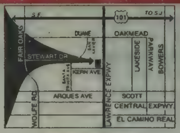

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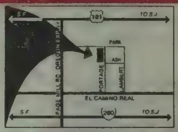

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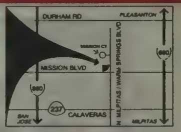

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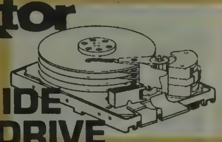

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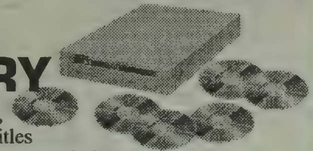

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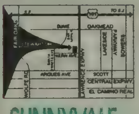
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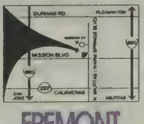
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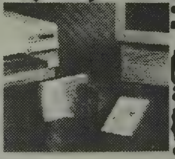

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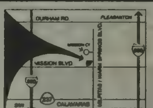

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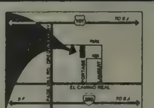

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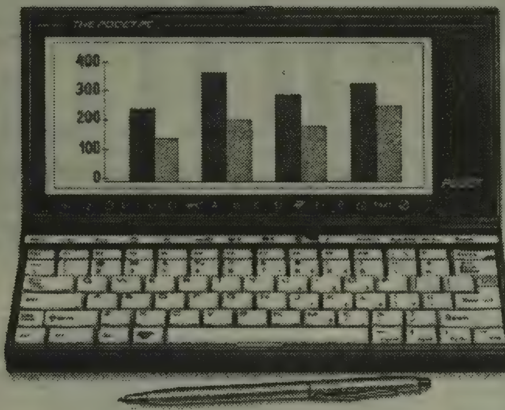
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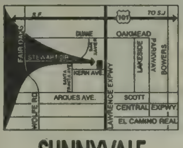
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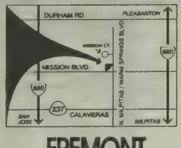
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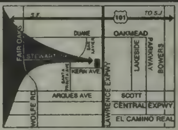
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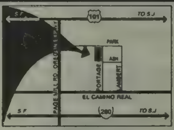
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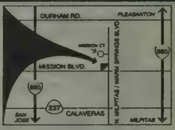
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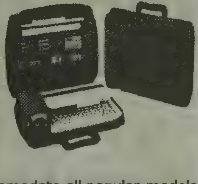

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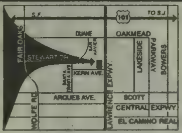
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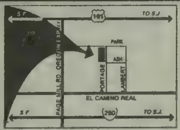
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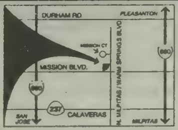
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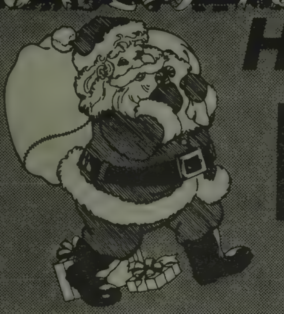

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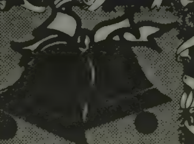
Panasonic

Christmas From Fry's!



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Most cordless phones have a very short battery life, but this one can last up to 7 days in the standby mode! Add a flexible antenna, 10 number memory, 10 channels,paging and you have an excellent value at . . .

$88

10 CHANNELS

MODEL
KX-T3710
#1511389

Panasonic
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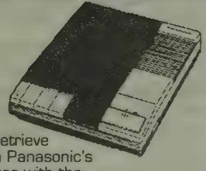

This compact answering machine is perfect for just about anybody. Fully featured, you can retrieve your messages from any tone phone. Plus, with Panasonic's Auto-Logic operation you can hear your messages with the touch of a button. Other features include auto-interrupt, 12-function tone remote control memory playback and call screening

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MODEL
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#1563320

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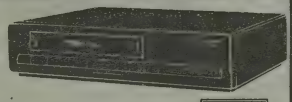

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Panasonic Presents a low priced VCR that's high valued. Get this remote controlled VCR with on-screen programming, quick play and a real time tape counter for only...

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#1570179

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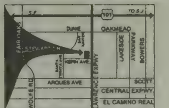
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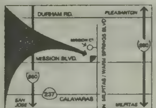
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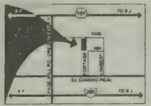
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PC BUYERS GUIDE

HARDWARE

MAGNAVOX HEADSTART SX-20

The HeadStart SX-20 features an Intel 20MHz, 386SX with 2MB of RAM, expandable to 8MB. It has five drive bays, four 16-bit expansion slots, an 80MB hard disk, Super VGA video, and a mouse. It comes preloaded with GeoWorks Ensemble and Lotus 1-2-3 v2.2. A second version of this system, the HeadStart SX-20 CD, has an integrated 680MB CD-ROM drive. It includes an elaborate array of CD software, such as Grolier's Electronic Encyclopedia, Microsoft Bookshelf, PC Globe, and Geo Jigsaw. In addition to the CD software, the SX-20 CD can play conventional audio CDs. The user can hear great CD stereo sound while working on their computer through the stereo headphones that come with the unit. The user can also connect the PC to a home stereo through the RCA output jacks. (SX-20, $1699; SX-20 CD, $2099) Phillips Consumer Electronics Co., One Phillips Dr., PO Box 14810, Knoxville, TN 37914-1810.

MICRO EXPRESS 486 PC

The ME 486-ISA/LC is a 25MHz desktop computer with 1MB of RAM, either a 3.5" or 5.25" high-density floppy disk drive, and a small footprint case. The proprietary motherboard holds up to 32MB of RAM in SIMM packages. The compact case contains six 16-bit and two 8-bit expansion slots. The ME 486-ISA/LC is offered with a choice of keyboards at no additional charge. The buyer can order a standard 101-key enhanced keyboard, with or without audible feedback, or with a built-in trackball mouse. Micro Express provides a full two-year warranty on parts and labor, as well as a thirty-day, no-questions-asked money-back guarantee. ($1999) Micro Express, Inc., 1810 Carnegie Ave., Santa Ana, CA 92705. 1-800-642-7621.

GRID MMP433E

The GRiD MMP433e is a high-end 33MHz 486 personal computer ideal for the development and delivery of multimedia presentations. It comes standard with 8MB of RAM, a 105MB IDE SmartDrive, Super VGA, CDR-1000 CD-ROM drive, a multimedia graphics expansion adapter with audio circuitry, and a CDR-1000 interface. ($6449) GRiD Systems Corp., 47211 Lakeview Blvd., Fremont, CA 94538. (510)656-4700.

GOLDSTAR 486SX

The GS420, a 20MHz 486SX PC, provides users with the benefits of 486 hardware compatibility and power at cost-effective 386 prices. It comes standard with 4MB of RAM, expandable to 16MB, a 5.25" 1.2MB floppy drive, eight expansion slots, and a storage bay for up to five drives. Also included is an enhanced 101-key keyboard, dual serial and parallel ports, an IDE interface, and a one-year limited warranty. ($3995) GoldStar Technology, Inc., 3003 N. First St., San Jose, CA 95134-2004. (408)432-1331.

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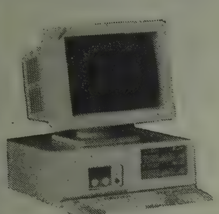

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2 Serial/1 Serial/1 Game Ports
101-key Enhanced Keyboard

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TECH 386sx-20MHz	$498
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TECH 386-33MHz w/ 64K Cache	$558
TECH 386-40MHz w/ 64K Cache	$628
TECH 486-33MHz w/ 64K Cache	$928
TECH 486-33MHz w/ 256K Cache	$1,028
TECH 486-33MHz EISA w/ 64K Cache	$1,646

Bare-bone system includes: 1MB RAM, 1.2MB or 1.44MB floppy drive, IDE 1:1 HD/FD controller, clock & calendar, 2 serial/1 parallel/1 game ports, Costar mini 101 keyboard, desktop or mini-tower case w/ power supply, and socket for math coprocessor.

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Maxtor 120MB	$395
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Quantum 200MB	$609
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VGA Mono 14"	$139
Packard Bell VGA	$245
GoldStar VGA	$245
SuperVGA	$315
Panasonic 1381	$369
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Relisys 9514	$325
Nanao 9070U	$990

MICE

Micro Serial Mouse	$29
Imsi Serial Mouse	$42
Logitech Bus	$79
Logitech Serial	$75
Microsoft Bus	$92
Microsoft Serial	$95

VIDEO CARDS

Mono Card	$18
CGA Card	$25
EGA Card	$59
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512K VGA	$89
Trident 1MB VGA	$115
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Video-7 VRAM II	$375
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SpeedSTAR Plus	$249

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NEC P3300	$389
NEC P6200	$489
Fujitsu DL-1100	$289
Fujitsu DL-3600	$639
Fujitsu DL-4600	$999
Okidata 320	$327
Okidata 390	$469
Panasonic 1180	$155
Panasonic 1123	$239
Panasonic 1124i	$295
Canon BJ-10ex	$369
Alps 500	$349

CONTROLLERS

XT MFM	$49
XT RLL	$49
AT MFM	$55
AT RLL	$65
IDE Adapter	$18
UltraStor ESDI	$159
Future Domain SCSI	$159
Adaptec 1542B SCSI	$275

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PC HARDWARE

CUMULUS WORKBOX SX/40

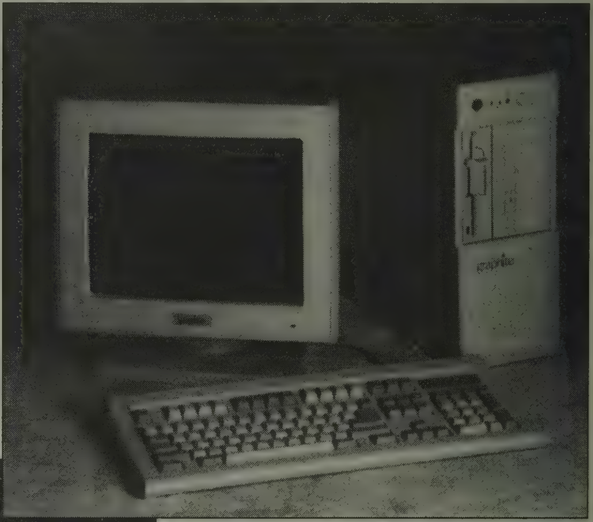
The WorkBox SX/40 offers a 16MHz Intel 386SX processor, a 40MB hard disk drive, and a Super VGA graphics adapter. This plug-and-play system comes preloaded with MS-DOS and Windows. Designed around a compact case, the WorkBox also features a 3.5" 1.44MB floppy drive, 1MB of RAM, expandable to 16MB, a dual button mouse, two serial ports, and one parallel port. With six expansion slots there is plenty of room to install hardware for modems, scanners, and other accessories. ($999) Cumulus Corp., 23500 Mercantile RD., Cleveland, OH 44122. (216)464-2211.

BELL COMPUTER 386WB-40SL

The new system from Bell Computer Systems is a 40MHz AM386 PC that comes standard with 4MB of RAM, a 200MB Conner hard drive, 14" Super VGA monitor, 1MB VGA Freedom Card, and 64K cache memory. It includes one parallel port and two serial ports, a mouse, MS-DOS 4.01, and Windows 3.0. Bell offers GE on-site service for six months, expandable to five years. ($2999) Bell Computer Systems, Inc., 15760 Ventura Blvd., Suite 1020, Encino, CA 91436-3095. (818)990-1235.

BLACKSHIP 486 SYSTEMS

The Blackship 486-based systems are available in attractive desktop or tower configurations. Blackship 486/33MHz EISA and 486/33MHz ISA standard systems include 4MB of RAM, expandable to 64MB. The i80486 carries an on-chip 8K cache memory, a floating point unit, and a math coprocessor. Both systems are compatible with all major operating environments, such as UNIX, XENIX, OS/2, Windows, Novell, Concurrent DOS, and MS-DOS. Also standard with either system is a 14" Super VGA monitor with a 16-bit Super VGA card, and a 200MB hard drive. ($4395, 486/33 EISA; $3595, 486/33 ISA) Blackship Computer Systems, Inc., 4031 Clipper Court, Fremont, CA 94538. 1-800-877-6249.



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The Xpand line of upgradable personal computers allows users to invest in systems that meet their current needs and not have to worry about what new technology will be introduced next month. The Advanced Modular Technology (AMT) puts the memory, processor, cache, and other performance-related items onto one easy-to-change CPU card. By unplugging this card and plugging in another, users can upgrade a complete system and add newly developed features that were not even available when the system was originally purchased. This provides a significant cost savings in two ways: Users can avoid replacing their entire computer, and the downtime associated with changing systems is much less. (List prices start at $1129) Graphite Microsystems, Inc., 1095-5 Cranbury S. River Rd., Jamesburg, NJ 08831. (609)655-4949.

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80486-33 w/64K cache

*Intel 80486-33MHz
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Graphic Adaptor
*Teac 1.2M &1.44M Floppy Drive
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* 2 serials, 1 parallel, 1 game port
* Tower case w/285 watts power supply

Complete System $ 2099

80386-40 w/64K cache

*AMD 80386-40MHz
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.28mm color monitor
*Paradise SVGA 1024x768
Graphic Adaptor
*Teac 1.2M &1.44M Floppy Drive
*Logitech Dexxa Mouse w/ Rainbow Paint
*Chicony 101 Enhanced Keyboard
*2 serials, 1 parallel, 1 game port
*Mini Tower case w/285 watts power supply

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*Teac 1.2M & 1.44M Floppy Drive
*Logitech Dexxa Mouse w/ Rainbow Paint
*Chicony 101 Enhanced Keyboard
*2 serials, 1 parallel, 1 game port
*Mini Tower case w/285 watts power supply

Complete System $ 1515

80386-25

*Intel 80386-25MHz
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*40MB Teac 23ms HD
*Addonics SVGA 1024x768
.28mm color monitor
*Paradise SVGA 1024x768
Graphic Adaptor
*Teac 1.2M & 1.44M Floppy Drive
*Logitech Dexxa Mouse w/ Rainbow Paint
*Chicony 101 Enhance Keyboard
*2HD/2FD 1:1 controller
*2 serials, 1 parallel, 1 game port
*Mini Tower case w/285 watts power supply

Complete System $ 1250

80386SX-25 w/32KB cache

*AMD 80386SX-25Mhz
*32KB WriteBack Cache
(up to 64KB)
*1MB DRAM (up to 16MB)
*40MB Teac 23ms HD
*Addonics SVGA 1024x768
.28mm color monitor
*Paradise SVGA 1024x768
*2 serials, 1 parallel, 1 game port
*Teac 1.2M & 1.44M Floppy Drive
*Logitech Dexxa Mouse w/Rainbow Paint
*Chicony 101 Enhance Keyboard
*Desktop case w/285 watts power supply

Complete System $ 1199

80386-20

*Intel 80386-20MHz
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*40MB Teac 23ms HD
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Graphic Adaptor
*Teac 1.2M & 1.44M Floppy Drive
*Logitech Dexxa Mouse w/Rainbow Paint
*Chicony 101 Enhance Keyboard
*2HD/2FD 1:1 controller
*2 serial, 1 parallel, 1 game port
*Desktop case w/285 watts power supply

Complete System $ 1199

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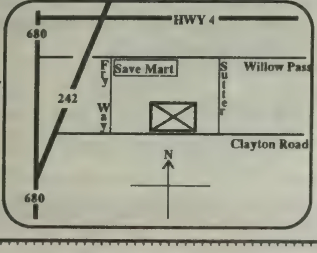

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MLS TOWER 486-25/33 ISA VGA

Standard Configuration

- Intel 486-25/33 CPU
- Built in Coprocessor
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- 4 MB RAM exp to 32 MB on board (70ns)
- 200 MB Hard Drive
- 5.25″ (1.2 MB) TEAC floppy drive
- 3.5″ (1.44 MB) TEAC floppy drive
- IDE FDD/HDD controller
- 2 serial, 1 parallel, 1 game port
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- 101 enhanced keyboard
- Full Tower Case w/250W Power Supply

486-SX	$CALL
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MLS TOWER 486 EISA SVGA

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- Intel 486/25/33 CPU
- Built in Coprocessor
- 8K Internal cache
- 256K External cache
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- Maxtor 8380E 360 MB ESDI hard drive (14.5ms)
- Ultrastor ESDI FDD/HDD with 32K cache controller
- 5.25″ (1.2 MB) TEAC floppy drive
- 3.5″ (1.44 MB) TEAC floppy drive
- 2 serial, 1 parallel, 1 game port
- 16 bit SVGA card with 1 MB
- 14″ SVGA Monitor (1024x768 .28)
- 101 enhanced keyboard
- Full Tower Case w/250W Power Supply
- MS-DOS manual

25 MHz	$3788
33 MHz	$3988

MLS TOWER 386-33/40

Standard Configuration

- Intel 386/33 CPU
- Socket for coprocessor
- 64K Cache RAM
- 4 MB RAM exp to 32 MB (70ns)
- 120 MB hard drive (16ms)
- 5.25″ (1.2 MB) TEAC floppy drive
- 3.5″ (1.44 MB) TEAC floppy drive
- IDE FDD/HDD controller
- 2 serial, 1 parallel, 1 game port
- Orchid Prodesigner II 16 bit SVGA card with 1 MB
- 14″ Super VGA monitor (1024x768 .28mm)
- 101 enhanced keyboard
- Middle tower case with power supply

33 MHz	$1528
40 MHz	$1588

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LANDMARK=34 MHz

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- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP Or 16-Bit VGA Card 1024x768 w/512K
- 2S/1P/1G
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- 40 MB Hard Disk 17ms
- 1.2 MB or 1.44 MB TEAC Floppy Drive
- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP Or 16-Bit VGA Card 1024x768 w/512K
- 2S/1P/1G
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- IDE Controller
- Mono or VGA Monitor 1024x768
- MGP or 16-Bit VGA Card 1024x768
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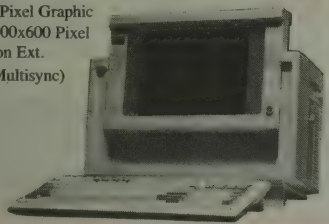

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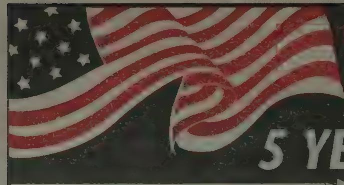

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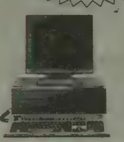

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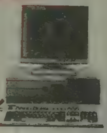

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- Turbo Case
- 200 Watt Power Supply
- 1.2 or 1.44 MB Floppy Drive
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- Key Office Master Software Included
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386-33 MHz w/64K Cache

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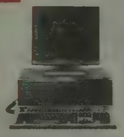
14" VGA Color Monitor



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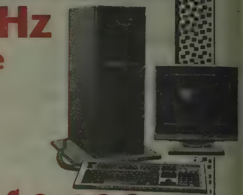

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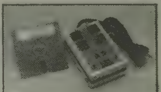

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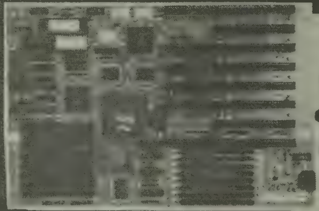

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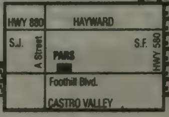


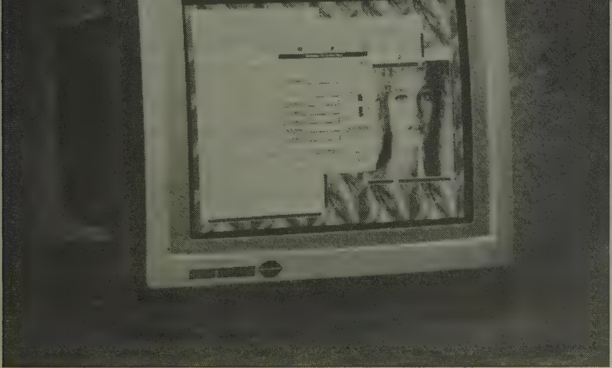
MONITORS

NEC MULTISYNC 6FG MONITOR

The NEC MultiSync FG line of color monitors has been redesigned for graphical user interface-based applications. They also feature a new color control system called AccuColor, which enables users to match the on-screen colors with the colors delivered by printers, other monitors, service bureaus' output, or color standards. The 6FG is a 21", flat, square screen that is compatible with VGA, Super VGA, 8514/A, XGA, and Macintosh II and LC family of computers. It supports resolution up to 1280 x 1024 at 60 to 74Hz. All elements of these monitors conform to NEC's ErgoDesign philosophy to include expanded digital controls, reduced magnetic field technology, optional MultiSync monitor lens, anti-static screen coating, tilt/swivel base, and up-front user controls. ($3499) NEC Technologies, Inc., 1255 Michael Dr., Wood Dale, IL 60191. (708)860-9500.

SAMSUNG COLOR MONITOR

The SyncMaster 15 is the new 15", flat screen, color monitor from Samsung for both IBM PC and compatible computers and the Apple Macintosh. It displays RGB using VGA analog output up to 1024 x 768 pixel resolution with a flicker-free 70Hz refresh rate. Samsung uses an Invar metal alloy shadow mask behind the glass to provide a superior contrast. Invar is heat resistant, eliminating blotches on the screen caused by heating of the screen mask. All screen controls are on the front of the monitor for easy access. The SyncMaster 15 is compatible with VGA, Super VGA, 8514/A, XGA, and EVGA graphics cards, and the Macintosh. A pin adapter is available for use with the Macintosh. ($849) Samsung Information Systems America, Inc., 3655 N. First St., San Jose, CA 95134-1708. (408)434-5400.



SIGMA MULTIMODE 120

Windows 3.0 has changed computing for over four million DOS users with its icon driven user interface. MultiMode 120 is the first display system to provide users with features that enhance Windows 3.0 capabilities. This monitor uses a large, 19", flat screen display system for tiled rather than stacked windows, enabling users to view multiple applications simultaneously. Its namesake, MultiMode, is an exclusive technology that allows instantaneous magnification and reduction of the displayed image through user-definable hot keys within any Windows 3.0 applications. MultiMode also includes a two-million-pixel virtual display feature with panning capability to make the entire 1664 x 1200 image available to the user, regardless of the selected resolution. The MultiMode 120 also features an on-board VGA chip that provides extensive support for non-Windows 3.0 applications. ($1495) Sigma Designs, Inc., 46501 Landing Pkwy., Fremont, CA 94538. (510)770-0100.

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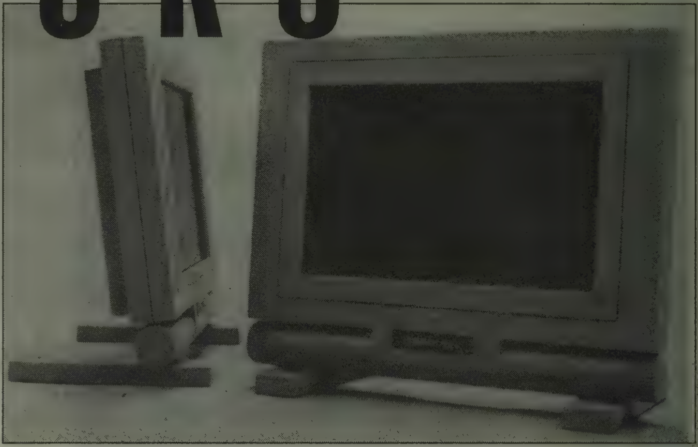
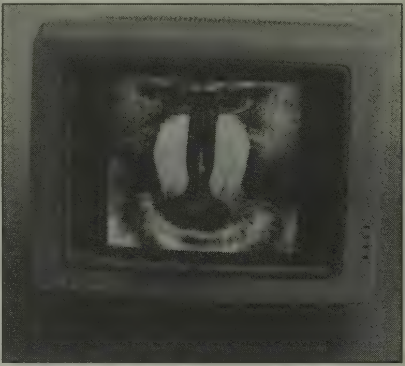
MONITORS



RELISYS MULTISCAN COLOR MONITOR

The RE-1458 14" Super VGA color monitor from Relisys uses both TTL and analog video inputs, and features multiple scanning frequencies. Designed for high-resolution color applications running on IBM PS/2 and Macintosh II systems, the RE-1458 has a maximum resolution of 1024 x 768, non-interlaced, flicker-free display of unlimited colors. It includes many ergonomic features, such as a non-glare display and a cabinet with a 25° tilt and 180° swivel for optimum viewing position. ($795) Relisys, Inc., 320 S. Milpitas Blvd., Milpitas, CA 95035. (408)945-9000.

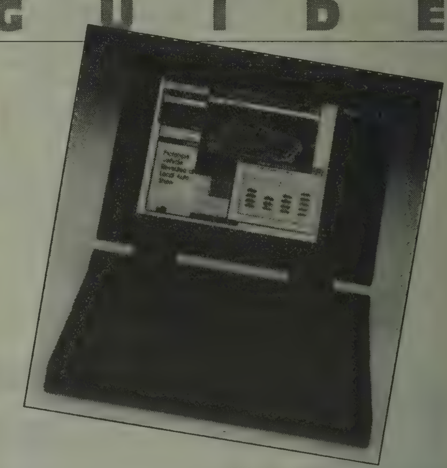


SPACE AGE FLAT SCREEN MONITOR

The SpaceAge Flat Screen monitor is a lightweight, compact, LCD display designed in a standalone case that can either rest on a desk with its reclining stand, or be mounted on a wall. It comes with an IBM-compatible, LCD graphics, 8-bit adapter card, software utilities and drivers, and connecting cable. It supports 640 x 400 resolution and is CGA/MDA/HGC compatible. This monitor produces less glare and flickering, and no harmful extremely low-frequency (ELF) or very low-frequency (VLF) electromagnetic radiation. The SpaceAge Flat Screen is ideal for work environments where counter or desk space is at a premium, such as banking, airline counters, travel agencies, point-of-sale centers, classrooms, and laboratories. ($549, VGA model available for $649) SpaceAge Computers, Inc., 27071 Cabot Rd., Suite 103, Laguna Hills, CA 92653. (714)582-8765.

BUYERS GUIDE

LAPTOPS



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The Eclipse-SL 20MHz, 386SL Notebook weighs only 6 lbs. and comes with 2MB of RAM, expandable to 8MB; a 3.5" 1.44MB floppy drive; a 20MB, 40MB, or 60MB hard drive; 64K cache, a backlit VGA-compatible LCD; and a full-function 84-key keyboard including a key mouse from Keytronics. Other features include external ports for both a keyboard and a monitor, serial and parallel ports, and DR DOS 5.0 in ROM. A socket for an 80387 coprocessor and an internal 9600 baud fax/data modem are optional. ($2995) MicroWorld Corp., 3610 N. 44th St., Suite 250, Phoenix, AZ 85018. (602)381-8433.

NEC ULTRALITE III NOTEBOOK

The NEC UltraLite III is one of the lightest and smallest notebooks available. Weighing under 5 lbs. with battery and measuring only 9" x 11.5" x 1.5", this notebook is an ideal choice for professionals on the go. This 20MHz, 386SX notebook includes a 60MB hard disk drive, and 2MB of RAM, expandable to 10MB. An optional portable Docking Station unit weighing less than 10 lbs. provides the convenience of a notebook computer and the power of a desktop system while travelling. The Station includes a 5.25" half-height bay, one full and two half AT slots, an external floppy disk port, and an external keyboard port. ($3699. The portable Docking Station unit has a suggested list price of $999) NEC Technologies, Inc., 1414 Massachusetts Ave., Boxborough, MA 07129. (508)264-8000.

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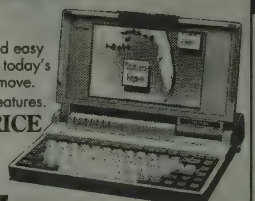

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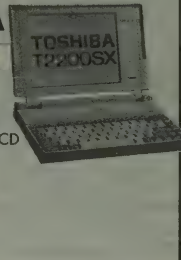

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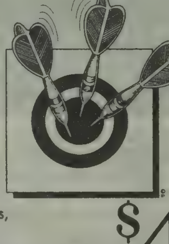

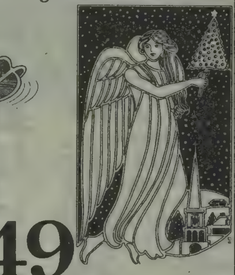

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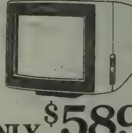

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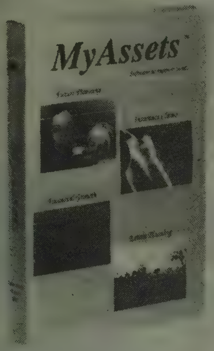

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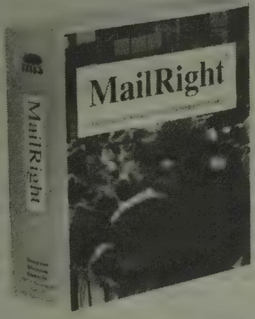

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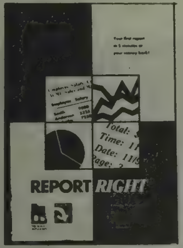

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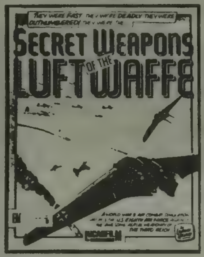

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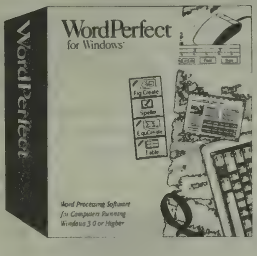

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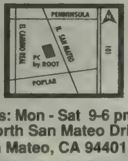

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LAPTOPS

NBCC 20MHZ NOTEBOOK

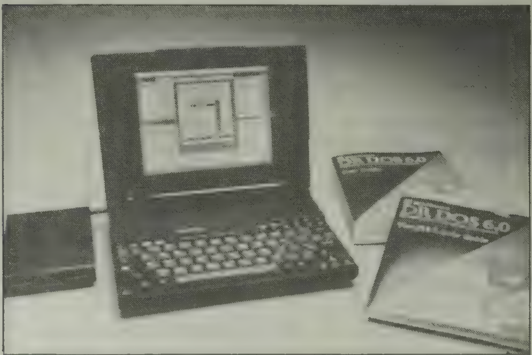
The latest PC Notebook from NBCC USA offers many new features including a 20MHz 386SX processor, high-performance memory interleave, 4MB of RAM, expandable to 8MB, 40 or 60MB hard disk, and Suspend/Resume function switch. The new Suspend/Resume feature allows users to place a bookmark within any program at power down. At power up, the program and data are instantly retrieved. In addition, the 82-key keyboard isolates separate cursor movement keys and function keys to emulate 101- and 102-key AT keyboards. The NBCC Notebook comes bundled with DR DOS 5.0, and includes device driver software for all major operating systems and popular business programs. (List price begins at $2595) NBCC USA, Inc., 216 Technology Dr., Suite E, Irvine, CA 92718. (714)753-8866.

GRID CELLULAR NOTEBOOK

GRiD Systems and PowerTek Industries have teamed up to introduce the GRiD 1750 Cellular Notebook System, a rugged, lightweight, easy-to-use data/voice communications package for mobile professionals. This 386SX notebook computer includes PowerTek's CMI (Cellular Modem Interface) 990 cellular data transmission package. Utilizing a 9600 baud Microcom Micro-Modem, a Fujitsu transceiver, an intelligent adapter, and a proprietary PowerTek cellular interface, the GRiD Cellular Notebook is faster at transmitting data over a cellular line than via a fax modem. You can also use the cellular phone headset to make phone calls from the field. This system comes standard with 1MB of RAM, expandable to 5MB, an internal 3.5" 1.44MB floppy drive, a 60MB hard drive, VGA backlit LCD display, auto-sensing, AC power adapter, and MS-DOS 5.01. ($5871) GRiD Systems Corp., 47211 Lakeview Blvd., Fremont, CA 94538-6955. (510)656-4700.

COMMAX ULTRATHINPLUS NOTEBOOK

The 386SX Ultrathinplus notebook computer from Commax Technologies features a VGA display, 4MB of RAM, an internal 60MB Conner hard disk drive, an external 3.5" 1.44MB floppy drive, and a 9600 baud fax/2400 baud modem. The bundled operating system, DR DOS 6.0, gives users increased application memory space, more intuitive commands, and online help. Commax also provides a one-year General Electric Service Warranty. Other features include a 79-key keyboard, embedded numeric keypad, external VGA port, Digital Research File Transfer Cable, and a carrybag. (Suggested list price, $3295) Commax Technologies, Inc., 2031 Concourse Dr., San Jose, CA 95131. (408)435-5000.



PACKARD BELL 386SX NOTEBOOK

The PB386SXNB is a full-featured 16MHz, 386SX notebook computer that comes standard with 2MB of RAM, a VGA display, a 3.5" 1.44MB floppy disk drive, and a 40MB hard disk drive. This new system provides battery life of three to four hours. The power management features—including an intelligent standby mode—enable users to pop in a fresh battery without shutting down the active application. The display is a high-contrast black-on-white LCD with CCFT backlight that provides up to thirty-two levels of grayscale and reverse video in a viewing area 7" x 5.2". The PB386SXNB also features overcharge and cycling protection, power management for the CPU, an internal modem, and ports for an external mouse, keyboard, and floppy drive. (Suggested retail price, $3995) Packard Bell Corp., 9425 Canoga Ave., Chatsworth, CA 91311. (818)773-4400.

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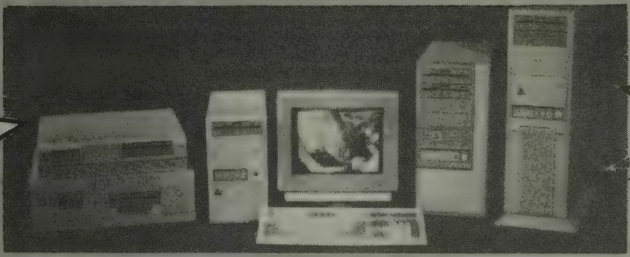

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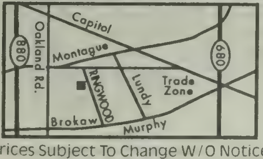

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LAPTOPS

TOSHIBA T4400SX

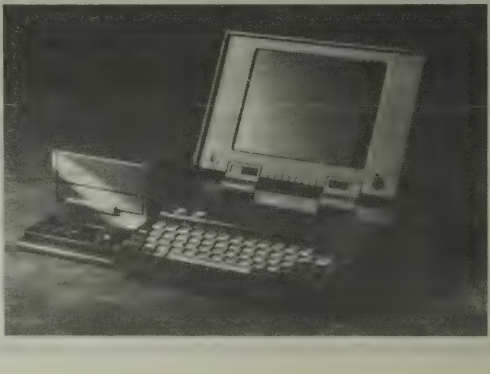
The Toshiba T4400SX is a 7.5lb. notebook featuring a 25MHz, 486SX processor. It comes standard with an 80MB hard disk drive, 2MB of RAM, expandable to 10MB, a 9.5" display, and a 3.5" 1.44MB floppy drive. Users have a choice of a low-power, gas plasma VGA display or an LCD black-and-white VGA screen. The Toshiba T4400SX notebook has a slot for an internal modem and includes a special custom clip for a Microsoft Ball Point mouse, which allows the user to close the cover without removing the mouse. To ensure maximum connectivity, the notebook includes a built-in parallel port, serial port, PS/2 mouse port, numeric keypad/101-key keyboard port, and a VGA connector for an external monitor. ($5899 with VGA display; $5599 with LCD display) Toshiba America Information Systems, Inc., Computer Systems Division, 9740 Irvine Blvd., Irvine, CA 92718. (714)583-3936.

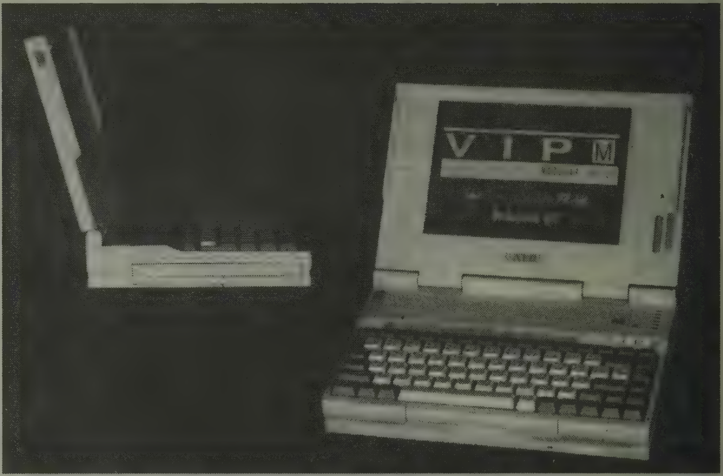
BONDWELL B310SX LAPTOP

The Bondwell B310SX features a 16MHz, 386SX processor. It comes standard with an 80MB hard drive, 2MB of RAM, expandable to 5MB, and a 3.5" 1.44MB floppy drive. This 8.5lb. notebook computer uses a backlit VGA display screen to give the user clear viewing even under difficult lighting conditions. The six C-size removable NiCad batteries offer more than two hours of operation time. The switchable power adapter automatically adjusts between 200–110V AC. The ninety decibel PC Alarm System is triggered by a user-defined motion detector. ($2395) Bondwell Industrial Co., Inc., 47485 Seabridge Dr., Fremont, CA 94538. (510)490-4300.

LIBREX 486 NOTEBOOK WITH EXPANSION STATION

The new Líbrex M486 is a 33MHz, 486DL notebook computer with a 3.5" 1.44MB floppy disk drive; 4MB of RAM, expandable to 64MB; a 9.5" LCD VGA display; and the choice of a 60 or 80MB hard disk drive. Líbrex has designed SmartPower, using an Intel 80C51SL, as a power and battery management system. When used with the Líbrex SystemBase expansion station, the notebook becomes a powerful desktop computer that allows access to the system resources of an office network. SystemBase has two full-length, 16-bit AT expansion slots; three mass storage bays; a built-in SCSI hard drive adapter; and ports for an external keyboard, printer, mouse, and full-size color monitor. (M486 with 80MB hard disk, $4899. SystemBase, $999) Líbrex Computer Systems, Inc., 1731 Technology Dr., Suite 700, San Jose, CA 85110. (408)441-8500.





ALR UPGRADABLE NOTEBOOK

The VIP M (Modular) series of notebook computers, from ALR, offers upgradability from 20MHz 386SX to true, 32-bit 20MHz 486DX and 25MHz 486DX. This system weighs 7lbs. and includes 4MB of interleaved, age-mode memory, expandable to 16MB; a 40, 60, or 80MB hard disk drive; a 3.5" 1.44MB floppy disk drive; and a high-quality tactile response 82-key keypad with 101/102-key functionality. The VIP M has a 9", backlit LCD, paperwhite display screen that supports 640 x 480 resolution in thirty-two shades of gray. ALR's Module Buy-Back Program provides users with a cash incentive to upgrade their CPU. When VIP customers upgrade to higher-level processors, they may exchange their original processor module for a cash rebate of up to $200. (Suggested list price begins at $3495. VIP Upgrade Modules are $895 for the 486ASX/20 module) Advanced Logic Research, Inc., 9401 Jeronimo, Irvine, CA 92718. (714)581-6770.

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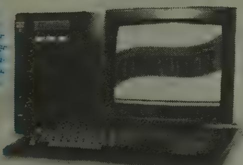

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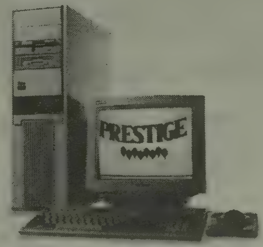
- 101 Keyboard
- AT I/O
- 2 Serial Port
- 1 Parallel Port
- 1 Game Port
- TEAC 1.2 or 1.44 MB FD
- SVGA Monitor 1024x768 dp
- SVGA Card 16 Bit 512KB
- Maxtor 85 MB Hard Drive

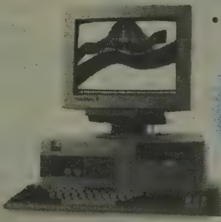


386SX-16

$899

386SX-16/20 System

- 386sx-16/20 Motherboard
- 1MB memory expandable to 8MB
- 1.2 Floppy drive
- 40 MB hard drive
- 2HD/2FD controller
- AT I/O
- 2 Serial Port
- 1 Parallel port
- 1 Game port
- SVGA card with 512K
- SVGA 1024x768 .28 DP monitor
- Deluxe case & P/S
- Enhanced 101 keyboard



386-25MHz

$1,039

386-25 System

- 386-25 Motherboard
- 1MB memory expandable to 8MB
- 1.2 Floppy drive
- 40 MB hard drive
- 2HD/2FD controller
- AT I/O
- 2 Serial Port
- 1 Parallel port
- 1 Game port
- SVGA card with 512K
- SVGA 1024x768 .28 DP monitor
- Deluxe case & P/S
- Enhanced 101 keyboard

386SX-20
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486DX-33 System

- 486-33 Motherboard
- 1 MB memory expandable to 32MB
- 1.2 Floppy Drive
- 2HD/2FD controller
- AT I/O
- 2 Serial ports
- 1 Parallel Port
- 130 MB hard drive (15ms)
- 1 Game Port
- SVGA Card with 512K
- SVGA 1024x768 .28 DP Monitor
- Deluxe case and P/S
- Enhanced 101 Keyboard
- 128K Cache

486-40
(128K Cache)
LM:182
$1,779

Hard Drive

• ST1144A	$380
• ST1239A	$549
• CP-3000	$179
• CP-30104	$349
• CP-3204F	$529
• Maxtor 85 MBI,16ms	$289
• Maxtor 130 MB, 16ms	$359
• Maxtor 8389E & S	$1,099

Monitor

• Impression SVGA (1024x768 .23DP)	$273
• Impression Non-interlaced	$355
• NEC 3DS	$539
• NEC 4DS/5D	$999/1989
• Nanao 9070U	$990
• Sony HG1304	$569
• Acer 14" Mono	$95
• Seiko 1440	$470
• Seiko 1450	$580
• Seiko 2050	$1,685
• Viewsonic 4/6/7/8	$315/369/1165/1699

Accesory

• Orchid Pro II S	Best Price
• Tseng Lab 1 MB VGA	$99
• Trident 1 MB VGA	$78
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• 2400 Baud Ext	$94
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BASIC SYSTEM CONFIGURATION

Motherboard and CPU, 1 MB memory installed, 1:1 2HD/2FD controller, 1.2 MB or 1.44 MB Floppy Drive, Internal clock/calendar, Mathematical coprocessor socket, 2 Serial/1 Parallel ports, Enhanced case with Power Supply, and 101-key Enhanced Keyboard.

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486-33C ISA w/64k cache	***$899***
386-40C w/64k cache	***$634***
386-33C w/64k cache	***$599***
386-25	***$499***
386-20SX	***$459***
386-16SX	***$399***
286-16	***$299***

HARD DRIVES

40MB/28ms (IDE)	$163	150MB/18ms (ESDI)	$648
89MB/18ms (IDE)	$269	200MB/18ms (IDE)	$559
124MB/19ms (IDE)	$359	Call for other hard drives	

Add $48 for each additional MB RAM
Add $59 for each additional Floppy Drive

MISCELLANEOUS WITH SYSTEMS

14" SVGA (1024x768. 0.28) Monitor & Card	$348	Panasonic KX-P1180 (9-pin)	$149
14" VGA Color Monitor & Card	$268	Panasonic KX-P1123 (24-pin)	$228
12"/14" Mono Monitor w/MPG card	$88/108	Panasonic KX-P1124 (24-pin)	$229
NEC 4D/NEC 3D/NEC 2A	$998/598/398	Panasonic KX-P1624 (24-pin)	$368
Sony 1304 HG (1024x768, 0.25)	$589	Windows 3.0 + Mouse	$59
Nanao 9080 i (16" SuperMultiscan)	$1049	Internal Modem 2400 Baud	$49
Trident 1MB (1024x768)	$74	Fax Modem (9600 Fax, 2400 Modem)	$95
Tseng Lab (1024x768)	$109	Logitech Mouseman serial (400 dpi)	$66
Orchid Prodesigner 2S w/1MB	$149	Diamond Speed Star w/1MB	$178
Orchid Prodesigner Sierra w/1Meg	$179	Motherboard with CPU	Call
Citizen 200GX (9-pin)	$154	Hi-Resolution Mouse	$19

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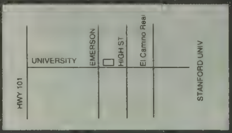

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SYSTEMS

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(Add $75 for 256K Cache)
(Add $650 for EISA board)

4 MB RAM (Add $164 for 8 MB RAM)
1.2 MB 5.25" Floppy Drive
1.44 MB 3.5" Floppy Drive
Dual Hard/Floppy IDE Controller
120 MB Conner or Maxtor Hard Drive
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1 Parallel, 2 Serial, Game Ports
High Quality 101 Enhanced Keyboard
1024x768 .28 DOT Pitch 14" Color
  Monitor (Add $65 for non-interlaced)
1 MB Trident SVGA Card
  (Add $35 for Tseng Lab)
  (Add $75-99 for Orchid ProDesigner 2S)
Choice of Mini-Tower, Medium-Tower,
  Full-Tower, or Desktop
  (All with 285 Watt power supply)

PRICE: $1899

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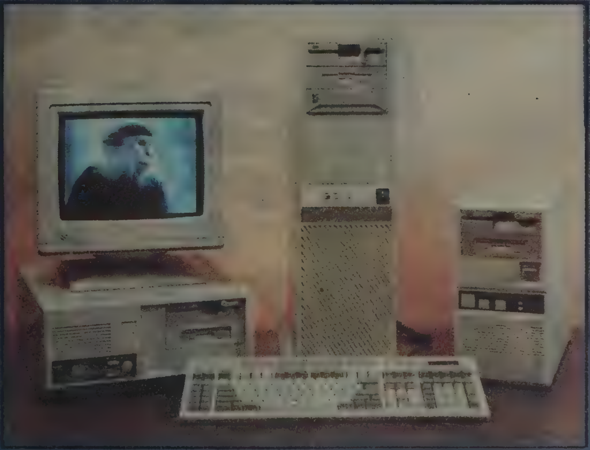

386/33 64K Cache
Or
386/40 64K Cache

4 MB RAM (Add $164 for 8 MB RAM)
1.2 MB 5.25" Floppy Drive
1.44 MB 3.5" Floppy Drive
Dual Hard/Floppy IDE Controller
120 MB Conner or Maxtor Hard Drive
  (Add $200 for 200 MB)
1 Parallel, 2 Serial, Game Ports
High Quality 101 Enhanced Keyboard
1024x768 .28 DOT Pitch 14" Color
  Monitor (Add $65 for non-interlaced)
1 MB Trident SVGA Card
  (Add $35 for Tseng Lab)
  (Add $75-99 for Orchid ProDesigner 2S)
Choice of Mini-Tower, Medium-Tower,
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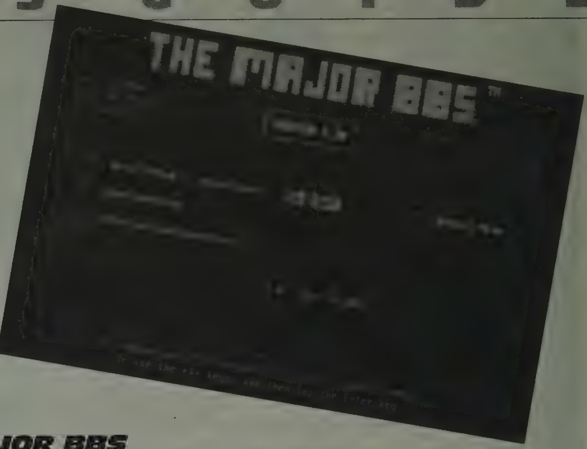

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The Major BBS is a multiuser BBS software package featuring email, teleconferencing, SIG messaging, file upload/download areas, questionnaires, a user registry, classified ads, user account maintenance, and a system information module. Other features include BBSetup automatic hardware detection, CNF offline configuration, online statistics, and remote Sysop operation. Galacticomm offers a large selection of add-on software from both Galacticomm and third-party developers. (Prices begin at $59 for two users and go to $1559 for more than sixty-four users) Galacticomm, Inc., 4101 S.W. 47 Ave., Suite 101, Fort Lauderdale, FL 33314. (305)583-5990. Modem, (305)583-7808.

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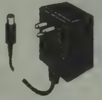
AC Adaptors

Fig.	Output	Plug	HSC#	Price
C	5VDC @ 3A, ±12VDC @ 30mA	7p. DIN/F	12800	$14.95
C	5VDC @ 1A, ±12VDC @ 250mA	5p. DIN/M	12245	$14.95
A	5VDC @ 500mA, ±12VDC @ 130mA	5p. DIN/M	12634	$4.95
B	5VDC @ 2A (New in Box)	1mm Coax	12534	$5.95
C	5VDC @ 1A	7p. DIN/M	12798	$4.95
C	5VDC @ 750mA (New in Box)	3pin Custom	9722	$5.50
B	9VDC @ 500mA (New in Box)	3mm Coax	10853	$4.95
B	9VDC @ 300mA (New in Box)	3mm Coax	12540	$3.95
B	9VDC @ 47mA	None	11212	$2.50
C	9.3VDC @ 1.95A	3mm Coax	12795	$6.95
C	11.5VDC @ 1.95A	3mm Coax	12797	$6.95
B	12VDC @ 800mA	None	12793	$4.95
A	12VDC @ 500mA	3p. DIN/M	6814	$4.95
A	14VDC @ 200mA	None	7976	$2.95
C	9VAC @ 3.4A	3mm Coax	12801	$5.95
C	9VAC @ 1.7A	3mm Coax	12796	$5.95
B	9.5VAC @ 750mA (New in Box)	2mm Coax	12600	$3.95
B	15VAC @ 100mA	2.5mm	11797	$1.95
B	17VAC C.T. @ 750mA	None	12424	$3.95
A	24VAC @ 825mA	RJ45	12586	$3.95

A.



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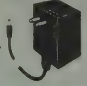
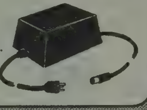


C.



Power Supply Specials!

Style	Input	Output	HSC#	Price
"A"	110/220 VAC	5 VDC @ 2 A 12 VDC @ 1A -12VDC @ .25A	12759	$22.50

Skynet switching supply, new -- 2.75" x 5.125" x 1.25" PC Board (no chassis)

Style	Input	Output	HSC#	Price
"A"	110/220 VAC	5 VDC @ 2 A 12 VDC @ 1.5A	12758	$17.50

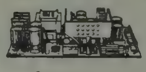
C.P. or Skynet switching supply -- 2" x 6.25" x 1.25" PC Board (no chassis)
Used, tested good (Note, Skynet is .75" shorter than C.P.)

Style	Input	Output	HSC#	Price
"B"	110/220 VAC	5 VDC @ 32 A 12 VDC @ 4 A -12 VDC @ 1 A	10928	$ 9.95

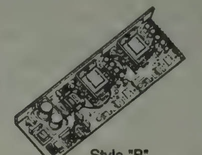
Closeout of HUGE switching p.s. - 13.5" x 5" x 2.5" on frame. 250 Watts!

Style	Input	Output	HSC#	Price
"C"	110/220 VAC	24 VDC @ 2.4 A	8611	$ 7.95

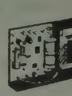
Condor linear supply - 5" x 5.5" x 3" on frame, new. Large quantity!



Style "A"



Style "B"

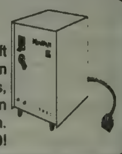


Style "C"

Note: Illustrations are approximate representations only, and not to scale!

Your Power Problems are Solved!

We have just gotten in some items that will help those of you who have computers and power line problems! The item at left is a battery-backup/line conditioner for those areas where power failures are frequent. 110 VAC 850 VA, (6.7Amp output) from 20 Amp/hour batteries, includes line noise filter and transient suppressor. Made by Topaz, model #84864-01DD, 4 outlets, measures 7" x 15" x 18". Used, only $495.00! The item at right is a 3KVA Powerline conditioner for constant voltage of clean AC power in conditions where there are sags or surges. Uses solid-state switching of transformer taps for voltage correction. 5 Circuits, 16 outlets. Made by Emerson Electric, Model #MPII-3EX, measures 12" x 18" x 19" with casters. Used, only $395.00!



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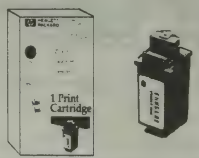
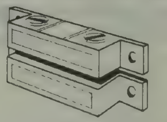


Alarming?

Reed Switch/Magnet Sets for home or office Burglar Alarm installations. Choice of Dark Brown or White.



10/$10.00

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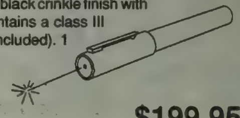
A very limited supply of these Solid-State Laser Pens is available for your early Christmas shopping. Looking very much like a high-class executive pen in black crinkle finish with gold-finish clip, this pointing device contains a class III Laser LED running off three 'N' Cells (included). 1 yr. factory warranty. Bright 3 to 4 mW output, 670 nM (red) wavelength. Now you can buy the latest in high-tech toys for the person who has everything!



$199.95

Ramsey Kits for the DIY'er...

HSC is proud to feature Ramsey Electronics Kits for the electronics hobbyist and "do-it-yourself" crowd...and they make more than just LED blinkers and sound-effects generators! Look at some of these exciting Amateur Radio projects! Send a SASE for complete list of kits available at HSC!

QRP-20, 30, 40, or 80 **Ham Transmitter kits for 20, 30, 40 or 80 Meters:** One-watt creystal controlled rigs with front panel switch for choosing between two VXO-controlled crystals, giving frequency range of up to 20 KHz. Pi-network antenna coupling to diode protected receiver T-R antenna jack. VSWR protection, VCO frequency tuning, 12 - 14 VDC operation. Each kit, $29.95 Case and knob kit, $12.95

HR-20, 30, 40, or 80 **Ham Receiver kits for 20, 30, 40 or 80 Meters:** Companion receivers to above transmitters. Better than 2 uV sensitivity, front panel RF Gain control, Audio Gain control, smooth varactor tuning, no toroids to wind! Uses popular NE602 IC and LM386 for audio output stage. Runs off a regular 9 V battery (not included). Each kit, $27.95 Case and knob kit, $12.95

FTR-146 **2-Meter Synthesized Transceiver kit:**No crystals! True freq. synthesis for 144 - 148 MHz. Front panel selection of favorite freq. pairs, 5 Watts RF Output. $129.95, Case and knob kit $24.95

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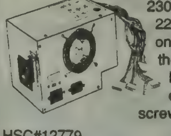

HSC#12779 **$39.00**

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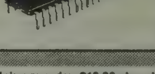

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486-33 W/64K CACHE	1456

ISA

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486-33 W/128K CACHE	846
486-33 W/64K CACHE	816
486-25 W/128K CACHE	766

486-33 NO CACHE	$786
486-25 NO CACHE	736
486SX-20 NO CACHE	587
386-33 NO CACHE	556
386-25 NO CACHE	516

386-40 W/64K CACHE	$546
386-33 W/64K CACHE	536
386-25 W/64K CACHE	496
386-25 NO CACHE	446
386SX-20	386
386SX-20 HALF	346
386SX-16	356
386SX-16 HALF	336
286-16	286
286-12	266

1 YEAR WARRANTY PARTS & LABOR ON SYSTEMS

MOTHERBOARDS

EISA

486-33 w/256K	$916
486-33 w/128K	876
486-33 w/64K	846

ISA

486-33 w/256K	$276
486-33 w/128K	236
486-33 w/64K	206
486-25 w/128K	234
486-33 No Cache	176
486-25 No Cache	176
486SX-20 No Cache	176
386-33 No Cache	176
386-25 No Cache	176
386-40 w/64K	179
386-33 w/64K	159
386-25 w/64K	155
386-25 No Cache	105
386SX-20 w/CPU Half	165
386SX-16 Half	155
286-16	77
286-12	62

CASES

Baby AT Case w/200W PS	$59
Mini Tower Case w/200W PS	59
Big Tower Case w/200W PS	105
Mid Tower Case w/200W PS	85

VIDEO CARDS

MGP Card	$11
EGA Card	44
CGA CARD	28
VGA 800 x 600 256K	44
VGA 1024 x 768 256K Paradise	53
VGA 1024 x 768 512K	62
VGA 1024 x 768 1 MB	74
VGA Tseng Lab 1024x768 1 MB	99

MONITORS

12" Mono	$71
14" Mono	95
640x489 VGA	245
Relisys RE 9513	280
Relisys RE 9514	299
Super VGA .28 1024x768	269
AAmazing 1024x768 .28	299
AAmazing Non Interlaced 1024x768	365
Sony 1304	565

RAM

4 MB-80ns Simm	$155
1 MB-80ns Simm	39
256-80ns Simm	11
4i256-80ns	1^{20}
44256-80ns	4^{25}
4164-80ns	1^{25}
4464-80ns	1^{65}

CALL FOR CPU, MATH COPROCESSOR PRICE

FLOPPY & HARD DRIVES

•Floppy Drives

Teac 1.2 MB FDD	$54
Teac 1.44 MB FDD	49

•MFM

Seagate ST-225 20 MB	$172
Seagate ST-251-1 40 MB	221

•IDE

Conner CP 3000 40 MB	$149
Conner CP 3104 100 MB	289
Conner CP 30104 120 MB	309
Conner CP 3204 200 MB	499
Quantum 80 MB 15ms	258
Quantum 120 MB 15ms	315
Seagate ST-157A	169
Seagate ST-1102A 89 MB	269
Seagate ST-1144A 130 MB	379
Seagate ST-1239A 210 MB	557

•ESDI

Maxtor 8760E 660 MB	$1366
ST-21096E 94 MB	560
ST-1111E 90 MB	565

CONTROLLER CARDS

MFM 2 FDD/2 HDD 1:1	$36
IDE 2 FDD/2 HDD 1:1	14
RLL 2 FDD/2 HDD 1:1	56
ESDI 2 FDD/2 HDD 1:1 64K	119
SCSI 2FDD/2HDD	129

MODEM CARDS

2400 Internal Modem	$56
2400 External	88
2400 MNP5 External	101
2400 Pocket Modem	83
9600 Fax/2400 Modem	119

KEYBOARD/MOUSE

101 Keyboard	$24
101 Click	28
Keytronic Keyboard	36
Track Ball 101 K	64
Logitech Mouseman	62

MISCELLANEOUS

AT I/O Card (2S/1P/1G)	$12
MS DOS 3.3	38
MS DOS 4.01	46
MS DOS 5.0	50
120 MB Colorado Tape Back-up	226
Tape Back-Up 120MB Controller Card AB10	69
250 MB Colorado Tape Back-Up	276
Tape Back-Up 250MB Controller Card FC10	99
Tape Back-Up 250MB Controller Card TC15	189
Sony 535 CD-ROM (600 MB)	379
NEC CD-ROM	Call

NETWARE

ETHERWARE LAN CARDS

LCS-8834 (NE 1000 8 Bit)	$89
LCS-8634 (NE 2000 16 Bit)	109
LCS-8834 T (10 Base-T 8 Bit)	139
LCS-8634 T (10 Base-T 16 Bit)	149

ARCNET LAN CARD

LCS-8830-CS (8 Bit)	$41
LCS-8830-CB (8 Bit)	47
LCS-8830-T (8 Bit)	51
LCS-8630-CS (16 Bit)	89
LCS-8830-T (16 Bit)	93

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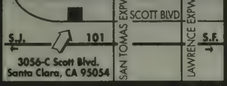
WENTEK Computer

DEALER INQUIRIES WELCOME



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Santa Clara, CA 95054

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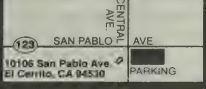
El Cerrito, CA 94530



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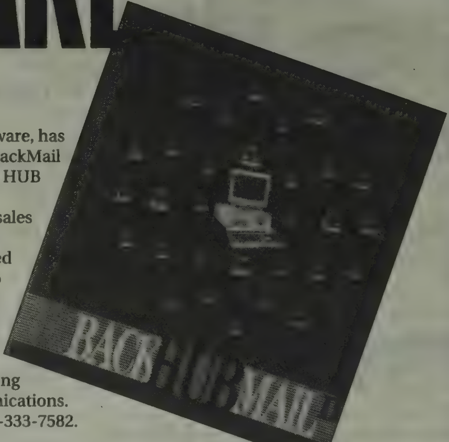
COMMUNICATIONS

BUYERS GUIDE

SOFTWARE

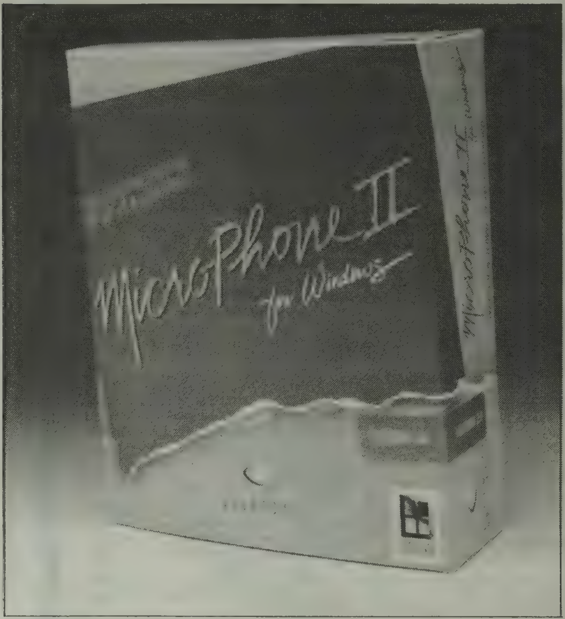
BACKMAIL II HUB

BMU Softworks, in conjunction with Deontic Software, has developed BackMail II HUB software for users of BackMail II instant email network products. The BackMail II HUB offers a solution for computer connection of a department, a division, members of an outbound sales force, multiple retail stores, government agencies, schools, and almost any other group that has a need to electronically communicate with computers. To access the HUB requires a copy of BackMail II v2.3 or higher, a PC, modem, and access to a telephone line. A single HUB, running on a dedicated PC XT or higher can service multiple phone lines. With the addition of 800 service on the incoming line, long distance callers get quick and convenient communications. ($399.95) BMU Softworks, Inc., Reading, PA. 1-800-333-7582.



AD LIB PC TELEPHONE ANSWERING SYSTEM

Ad Lib has developed a PC Telephone Answering System daughterboard for its line of Ad Lib Gold Stereo Sound Adapters. This add-on board uses the audio capabilities of the Ad Lib Gold card to link a PC to a standard telephone line. The tiny card is bracket-mounted but does not require a slot with a bus connector and includes telephone answering software. Messages can be personalized by providing individual callers with Touch Tone access codes, or all callers can be presented with a series of message options. Users can also time-link pre-recorded messages for different periods of the day. ($99.95) Ad Lib. Inc., 220 Grande-Allée Est, Suite 850, Quebec (QC), Canada G1K 3V8.



MICROPHONE FOR WINDOWS II

Microphone for Windows II telecommunications software runs under Microsoft Windows on IBM personal computers and compatibles. Through ordinary telephone lines or a direct-connect cable, this program can transfer any kind of data—electronic mail, graphics, spreadsheets, software applications, even scanned photographic images—between microcomputers, minicomputers, or mainframes. Microphone II's Watch Me recorder and script language allows you to personalize the program to automate your telecommunications procedures. ($295) Software Ventures Corp., 2907 Claremont Ave., Berkeley, CA 94705. (510)644-3232.

WILDCAT! 3.0 BBS SOFTWARE

Version 3.0 of WILDCAT!, the BBS software package from Mustang Software, adds many new features for the user and system operator. This new version streamlines message entry, file transfer, and networking operation with a point-and-shoot system. Keystrokes have been reduced to enhancing productivity. Other features allow users to mark files for downloading by choosing a number on the screen rather than typing a complete filename. Also, full-screen cursor control allows a caller to enter and edit messages similar to word processing programs. For system operators, v3.0 aids in file maintenance, permitting the viewing and altering of complete file database information. (Suggested retail price for a single-line version is $129; multiline (1–10) is $249, a network version (1–250) is $499) Mustang Software, Inc., PO Box 2264, Bakersfield, CA 93303. (805)395-0223. BBS, (805)395-0650.

Wildcat!
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*2S/1P/1G
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*2S/1P/1G
*Built-in Clock
*256K CACHE

386-40/33

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*1MB RAM on Board
*Expandable to 32MB
*Baby AT or Mini Tower
*200W Power Supply
*386-40/33MHz Board
*IDE Controller
*101 AT Keyboard
*1.44MB Teac FDD
*64K CACHE
*Built-in Clock

386-25

$519

*1MB RAM on Board
*Expandable to 8MB
*Baby AT or Mini Tower
*200W Power Supply
*386-25MHz Board
*IDE Controller
*101 AT Keyboard
*1.44MB Teac FDD
*Built-in Clock

386SX-25 $419

MOTHERBOARD

486-33MHz EISA (ASUS) w/256K CACHE INTEL Chipset, RAM exp. 64MB, no CPU	$935
486-33MHz ISA (TSM) w/64K CACHE (exp. 1MB) RAM exp. 32MB, no CPU	$240
486-33MHz ISA (TBT) w/128K CACHE (exp.256K) RAM exp. 32MB, 12 Slots, no CPU	$395
VLSI 286-12MHz exo, 4MB	$105
286-12MHz "Mini Baby" exp. 2MB	$74
286-16MHz	$85
386-40MHz w/64K CACHE, (exp. 256K) RAM exp. 32MB, no CPU	$192
386-33MHz w/64K CACHE, (exp. 256K) RAM exp. 32MB, no CPU	$185
386-25MHz no CACHE, no CPU,	$119
386SX-25MHz	$210
286-25MHz "Mini Baby", exp. 4MB	$119
286-20MHz exp. 4MB	$95

TOWER CASE SPECIAL!!

T-42T FULL TOWER W/DOOR, 230W UL; 9 BAYS	$135
T-47T FULL TOWER 230W; 8 BAYS	$119
T-41B MID TOWER 230W UL; 8 BAYS	$109

12-SLOT 486-33 SYSTEM

$1,049

- * 12-Slot Full Tower Case
- * Seven 5.25" Drive Bays
- * 230W Power Supply
- * Double Fan
- * 486-33MHz Motherboard w/ two 8-bit, ten 16-bit slots
- * 128K CACHE
- * FCC Class B approved
- * Built-in Clock

** 300W Power Supply: Add $50
** 256K CACHE: Add $115

CASE

Full AT Case IW-1	$48
Baby AT Case IW-5	$45
Baby AT w/200W Power (TBE)	$67
Mini Tower w/200W Power (TBE)	$67
12-Slot Full Tower, Double Fan, w/230W Power Supply (UL)	$169
w/300W Power Supply	$215

MONITOR

12" Amber	$79
14" Amber or Paper White	$109
ADI 14" VGA Paper White	$125
HYUNDAI VGA 14"	$220
CTX Non-Interlaced 14" 0.28 d.p	$379
WEN SVGA 14" 0.28 d.p	$275
Addonics 7C3 14" 0.28 d.p	$300
Sony 1304 Multi SVGA 14"	$569
View Sonic 4 SVGA 14" 0.28 d.p	$315
View Sonic 5+ Non-Interlaced	$545

VIDEO CARD

Orchid Sierra w/1MB	$179
TSENG w/ 1MB 70/72MHz	$109
TVGA W/256K EXP. 1MB	$65
TVGA w/512K	$59
VGA	$45
Mono/Color	$32
CGP	$25
MGP	$17

MODEM

2400/9600 Modem/Fax	$89
2400/4800 (Zoltrix) send only Modem/Fax	$57
2400 Modem (Zoltrix)	$49

NEW OFFICE HOUR

*Mon-Fri 9:00-6:00
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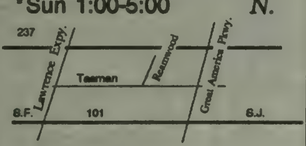

POWER SUPPLY

200W Full size	$49
200W Square UL	$52
200W XT size UL	$52
PS-2 200W	$42
230W for Tower	$49
250W for Tower	$65
300W for Tower	$85
PS-2 230W UL	$52
UPS-550 Uninterruptible Power System	$235

KEYBOARD

Keytronics 101	$42
Maxi 101	$37
Omni 101/102	$65/$75
Omni Ultra-T	$99
M-TEK Click 104	$39
M-TEK 208	$29
BTC 5339SX	$29
FOCUS 5001 w/cal	$69

MOUSE & DOS

Logitech Trackman Serial/Bus	$67/$75
Logitech mouseman Serial/Bus	$62/$72
Artec AM22 Serial	$25
Artec AM24 Serial	$18
Artec AM25 Serial	$15
MS-DOS 5.0	$47
WINDOWS 3.0	$52
MOUSE w/ MS-WINDOWS...	$62

TAPE BACKUP

COLORADO 120	$240
COLORADO 250	$320
Cartridge	$25

RAM**

1MB x 3, 80ns	$39
1MB x 3, 70ns	$40
1MB x 9, 80ns	$42
1MB x 9, 70ns	$43
1MB x 9, 60ns	$45
4MB x 9, 70ns	$165
4MB x 9, 60ns	$189

**CASH ONLY!!

I/O CARD

XT Multi I/O Double Side (2FD/1S/1P/1G/CLOCK)	$29
XT KW528C Multi I/O (1S/1P/1G/CLOCK)	$36
AT I/O (2S/1P/1G)	$19
Printer	$10
Clock	$19
Serial Card	$16
Game	$10
KW 531 4 Serial	$69

RAM CARD

576K Card for XT	$32
2MB Card for AT (DFI)	$79
384K Card w/ I/O for XT	$65
2MB KW540	$59

(All Price 0 Memory)

CONTROLLER

IDE 4FD/2HD/2S/1P/cable	$47
IDE 4FD/2HD/cable	$37
IDE 2FD/2HD/2S/1P/G/cable	$32
IDE 2FD/2HD.Cable	$17
KW530D 2FD	$29
TSL DC-2 4FD/2HD/cable	$72

PRINTER

Abaton

LaserScript LX PostScript, Non-Impact	$875

PANASONIC

KX-P1124i	$279
KX-P1624	$335
KX-P2624	$409

PANASONIC

(2nd Inventory)

KX-P1123	$179
KX-P1124	$195
KX-P1624	$295

(Factory 2-Year Warranty)
(No credit or refund after used, all printers!)

HARD DRIVE

IDE

40MB ST-157A 25ms	$195
40MB Quantum 40AT 19ms	$195
80MB Maxtor 7080A 19ms	$289
80MB Quantum 84AT 19ms	$289
100MB Teac 25ms 3.5"	$305
120MB Conner 30104 18ms"	$355
120MB Quantum GM12A 16ms 3.5"	$355
200MB Maxtor or Quantum 16ms 3.5"	$565

SCSI

200MB CP-3200 Conner	$539
120MB CP-30100 Conner	$349

FLOPPY DRIVE

Teac 1.2MB 5.25"	$57
Teac 1.44MB 3.5"	$51
EPSON 1.2MB 5.25"	$55
EPSON 1.44MB 3.5"	$49
Mounting Kit	$5
Ext. FD/HD Case	$62

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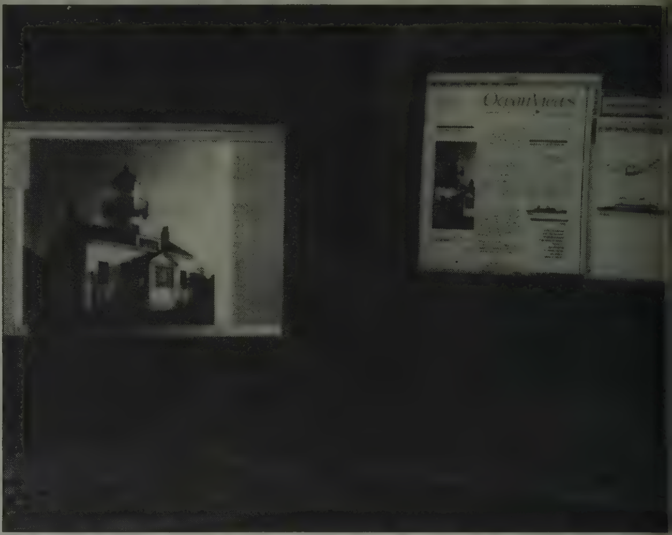
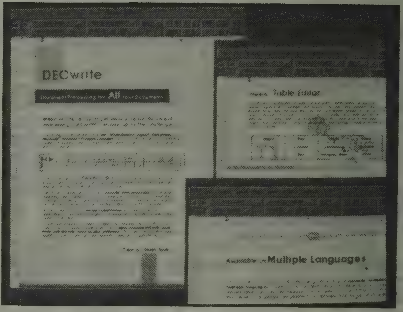
UNIX SOFTWARE



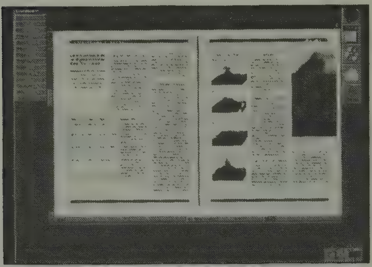
MOTOROLA INTEGRATED IMAGING SYSTEM

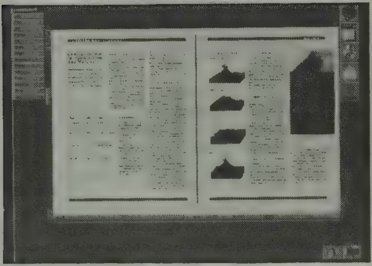
The MultiPersonal Image Exchange System (MIES) is a fully integrated UNIX network imaging package encompassing scanning, image editing, facsimile transmission, and optical archival storage capabilities with a common icon-based graphical user interface. It offers users an economical way to consolidate their imaging requirements with their existing office automation and business data processing applications in a single Motorola system. In addition, it provides a low-cost solution to the three leading imaging applications: document image processing (DIP), desktop publishing, and office automation. The MIES works with Motorola computers that employ its M88000 RISC processor. DIP refers to electronically processing, storing, and accessing images and documents and is often relied upon in industries that depend on large amounts of forms and documents. Motorola, Inc., Computer Group Computer Systems Division, 10700 N. De Anza Blvd., Cupertino, CA 95014. (408)366-4480.



DECWRITE V2

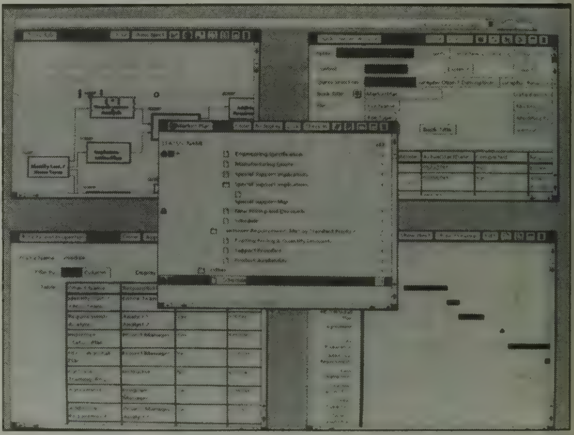
DECwrite combines word processing, desktop publishing, business graphics, and drawing in an easy-to-use, networked product. Version 2 is now available for the Sun SPARCstation and Microsoft Windows 3.0, as well as for VMS and ULTRIX RISC systems from Digital. DECwrite implements Digital's CDA architecture to offer powerful LiveLink and DDE connections between information presented within a compound document and its original source on the network. Other features include an icon-oriented function bar, cellular table editor, mail merge capabilities, and import/export facilities. DECwrite is available in several languages, including French, German, Japanese, as well as American and British English. (MS-Windows 3.0 version is $695; all other versions are $1500) Digital Equipment Corp., Maynard, MA 01754-2571. (603)884-3765.





FRAMEMAKER 3.0 FOR NEXT

FrameMaker 3.0 combines word processing, tables, page layout, graphics, equations editing, hypertext, and structured document tools into one powerful, easy-to-use package. The NeXT version of FrameMaker adds several key areas of functionality including tables, conditional text, support for 24-bit color PostScript output, and enhanced support of international languages. It also offers capabilities such as integration with NeXTmail, NeXT's Digital Librarian, and the Webster's Dictionary and Thesaurus. By making full use of NeXT workstations' digital signal processor, FrameMaker allows integration of recorded sounds into FrameMaker documents. ($795. A discounted educational version is available directly from Frame Technology) Frame Technology, Inc., 1010 Rincon Circle, San Jose, CA 95131. (408)433-3311.



XEROX GLOBALVIEW

Several of the Xerox GlobalView workgroup and document management applications are now available for the SPARC/UNIX platform. GlobalView provides the underlying systems structure and network resources for a fully integrated set of office applications—from basic document creation to complex teamwork management. Available for the first time on UNIX are the Xerox Document Search and Retrieval (DSR) document management software, DocuTran automated translation software, and DocuTeam workgroup software. Other releases include Pro Illustrator, Chemical Illustrator, and Xerox Equations. (A GlobalView starter kit is available for $1985 per workstation) Xerox Corp., Xerox Square, Rochester, NY 14644. (716)423-5078.

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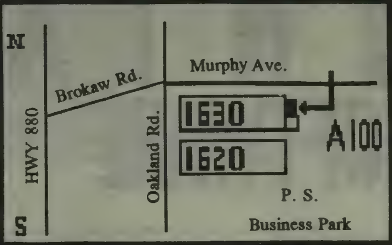

486/33 W/64K $ 848

486/25 W/64K $ 798

386/40 W/64K $ 578

386/33 W/64K $ 548

386/25 $ 458

386SX16 $ 348

BASIC SYSTEM CONFIGURATION

- -Mother Board w/cpu
- -IDE 2HD/2FD Controller
- -TEAC 1.2 or 1.44 FD
- -Math Coprocessor Socket
- -1 MB RAM on Board
- -2 S/1 P/1 G Port
- -AT Case w/220 PW
- -101 Key Board

MONTHLY SPECIAL

486/33 W/256K $ 948

MONITORS

14" VGA .39 DOT	$238	14" SVGA .28 DOT	$269
NON-INT .28 SVGA	$379	SONY 1304 .25 SVGA	$559

VGA CARDS

OAK VGA 256K(800 x 600)	$38
OAK VGA 512K(1024 x 768)	48
TRIDENT 8900C 1 MB(1024 x 768)	76
ORCHID PRODESIGNER IIS 1 MB(w/system)	BEST

HARD DRIVES

CONNER 40MB/28ms	$168	QUANTUM 52MB/17ms	$195
MAXTOR 80MB/18ms	278	CONNER 80MB/18ms	278
CONNER 100MB/18ms	308	QUANTUM 120MB/15ms	318
MAXTOR 130MB/15ms	338	CONNER 120MB/15ms	328
MAXTOR 213MB/16ms	555	CONNER 200MB/15ms	538

SIMMS/SIPPS/SRAM

256K x 9 80ns	$11	256K x 9 70ns	$12
1 MB x 9 80ns	39	1 MB x 9 70ns	40
4 MB x 9 70ns	164	32k x 8 20ns	call

PRINTERS

PANASONIC		EPSON	
KX-1180(9 PIN)	$149	LQ-570(24 PIN)	269
KX-1123(24 PIN)	218	LQ-870(24 PIN)	465
KX-1124i(24 PIN)	285		

MOTHER BOARDS W/CPU

486/33 W/256K	$738	486/33 W/64K	$678
486/25 W/64K	648	386/40 W/128K	398
386/33 W/64K	378	386/25	278
386SX16	160	386SX20/SX25	180/185

MISCELLANEOUS

80387DX/33(INTEL)	$220	WINDOW 3.0W/MOUSE	$65
80387DX/25(INTEL)	200	DOS 5.0	51
90387SX/20(INTEL)	195	MODEM 2400 B.	45

2400MODEM/9600 FAX B. SEND./REC	95
COLORADO 120MB TAPE BACKUP DRIVE	225
COLORADO 250mb TAPE BACKUP DRIVE	285
COLORADO BACKUP DRIVE CONTROLLER.(TC-15)	185
COLORADO BACKUP DRIVE CONTROLLER.(TC-10)	78
LOGITECH MOUSEMAN	65

* NOTEBOOK *

* 80386SX' W/40/60/80 HDD
* 640 x 480 VGA CCFT BACKLIGHT
* 2 MB ON BOARD MAX. 4 MB
* WT.5.7 lBS

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*One year warranty/parts & labor on system
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*Prices based on cash purchase

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BUYERS GUIDE

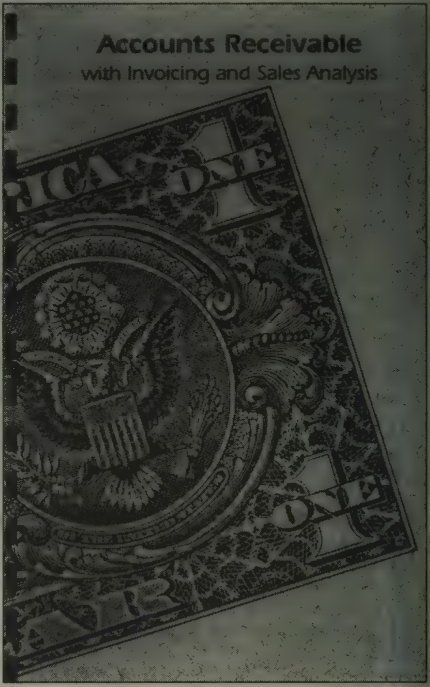
UNIX SOFTWARE

SUNPICS PRINTER'S PALETTE

SunPics (Printing and Imaging Computer Systems), a new business unit of Sun Microsystems, introduced volume one of The Printer's Palette. This CD contains hundreds of hardware and software products from third-party vendors for use with Sun's open network printing environment. The more than six hundred software products include F3 fonts, typefaces, file format conversion software, Macintosh printing software, and NeWSprint printing services. Many software products on the CD are offered free of charge and can be installed directly from the CD onto the user's system; software products for sale can be purchased with a call to the vendor, who supplies a password to unlock the product. SunPics, Sun Microsystems, Inc., 2550 Garcia Ave., Mountain View, CA 94043. (415)960-1300.

UNIX/XENIX ACCOUNTING

Taranto & Assoc. has introduced a series of accounting modules for the UNIX/XENIX operating system. These full-function, multiuser, multicompany modules are priced to compete with DOS-based packages. This initial release includes General Ledger, Accounts Receivable with Invoicing and Sales Analysis, Accounts Payable with Purchase Orders, and Inventory Control modules. (The introductory price is $99 per module with a thirty-day, money-back guarantee) Taranto & Assoc., Inc., PO Box 6216, 80 Mark Dr., San Rafael, CA 94903. (415)472-2670.



BUYERS GUIDE

UNIX HARDWARE

MICRONICS SCALABLE MULTIPROCESSOR SYSTEM

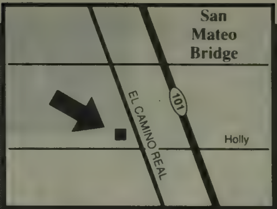
The new Mpro line of scalable multiprocessor computers offers extremely high-performance data processing in a cost-effective package. The systems are designed to support current industry-standard multiprocessor operating systems such as SCO UNIX MPX and Banyan Vines SMP, as well as uniprocessor systems such as NetWare, UNIX, and OS/2. The scalable SMP-4000 system will initially incorporate up to four 33MHz 486 CPUs. In addition, it will support up to 256MB of RAM, offers eight EISA expansion slots and six CPU/Memory card slots, and comes in a standard tower case with nine half-height bays and a 3.5" 1.44MB floppy disk drive. Micronics Computers, Inc., 232 E. Warren Ave., Fremont, CA 94539. (510)651-2300.

SUN SPARCSERVER 600MP SERIES

The new servers—the SPARCserver 630MP, 670MP, and 690MP—replace the SPARCserver 330, 470, and 490 systems, respectively. They use a revolutionary modular design that helps minimize user costs and makes possible an easy upgrade to multiple CPUs and to new technologies in the future. The new SPARC modules each include two 40MHz SPARC processors and plug into the system via MBus, an open specification. MBus is a high-speed interconnect with a 64-bit data path. The MP servers include SunSoft's Solaris 1.0 operating system, 64MB of RAM, 1.3 to 2.6GB disk storage, SunCD drive, Ethernet, one audio and two RS-423 serial ports, and a SCSI port. (Prices for the entry-level model begin at $45,000) Sun Microsystems, Inc., 2550 Garcia Ave., Mountain View, CA 94043. (415)960-1300.

Friendly Software Store

376 El Camino Real
San Carlos, 94070
(415) 593 - 8275



Computers

Standard Technologies 486 33 MHz

Mini-Tower
4MB RAM
14.9 MIPS
256K Cache
TRW On-Site Service $^\$100$

$^\$1799$

ALR Businessveisa 386-33 MHz model 101	$^\$1599$
Leading Edge 386-33 MHz Mini-Tower	1599
Leading Edge Model D3/SX 16 MHz 80386SX	689
AT&T Computers and Networks	Call

Software

Quicken 5.0 (DOS)

$\$39^{95}$

Wordperfect	$^\$249^{95}$
Microsoft Windows	89^{96}
Microsoft Works (DOS) for Windows	129^{99}
Microsoft Excel for Windows	299
Pagemaker (DOS)	499
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Disney Animation Studio	89^{59}
Gunship 2000	41^{95}

Laptops

Leading Edge DLT 386SX 16 MHz

40 MB Laptop with Windows

$\$1659$

AST Exec Laptop 20MB	$^\$2349$
AST Exec Laptop 40MB	2749
AST Exec Laptop 63MB	2995
AT&T Safari NSX/20	3695
AST Premium Exec 386SX 40MB	2699

Video

Super Video Windows

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Board	$^\$669$
Software	$^\$179$

3D TV (SIA) with demo tape

3DTV CORPORATION

$^\$199$

Renior Ultra-SVGA

32,768 Colors (800x600)
16-Colors (1280x1024)

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Laser printers

Okidata Okilaser 400 Laser

4ppm - HP LASER JET II compatible
300 dpi - 17 Resident Fonts
512k RAM
200 sheet paper tray

$^\$639$

Okidata OL830 8ppm Postscript	1399
Okidata 380 24 pin	249
NEC Silentwriter 2 Model 90	1499
Citizen 200GX	169
NEC P3200 24 pin	269

Hardware

Intel Math Coprocessor

80387DX/25
or
80387DX/33

$\$199^{00}$

80387SX/16	$^\$129^{95}$
Plus Hardcard II XL (105MB)	599
Plus Hardcard II XL (50MB)	399
Complete Communicator	319
Trackman Serial	79^{95}
Sound Blaster Pro	209^{95}
Sound Blaster	119^{95}
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Bernoulli Portable parallel adaptor	179

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Dell

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CPU	Intel 80486-33	Intel 80486-33	Intel 80486-33
Cache Memory Upgradable To	64K 256K	8K N/A	64K 256K
Simm RAM Upgradable To	4MB 64MB	2MB 16MB	4MB 64MB
Floppy Drive(s)	1.2M 1.44M	1.2M 1.44M	1.2M 1.44M
Hard Drive	210 MB Maxtor 15ms	200 MB	106 MB 19ms
Video Card	Diamond Speedstar 1MB 16-bit SVGA	Built-in	512K 16-bit SVGA
Monitor	Panasonic 1024x768 SVGA .28 Dot Pitch Non-Interlaced	Dell 600x480 VGA .31 Dot Pitch Interlaced	Panasonic 1024x768 SVGA .28 Dot Pitch Interlaced
Case	Vertical	Desktop	Vertical
Power Supply	250W	85W	220W
Keyboard	Keytronics 101 Enhanced	Dell 101 Enhanced	Omni Key
Price	**$3495**	**$3646**	**$3999**

Atel Outside

intel inside

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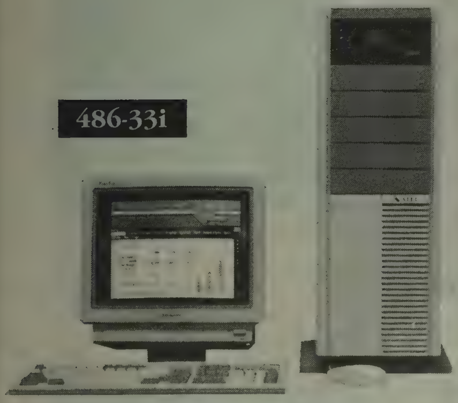
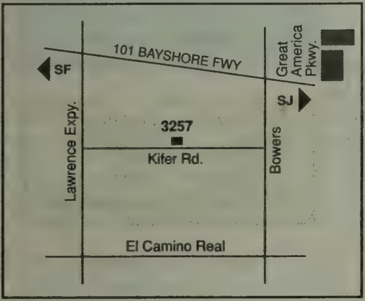
486-33i



ATEL OPTIMUM™ SERIES

	386SX-20	386-33	486-33i	486-33e
RAM Memory	2MB	4MB	4MB	8MB
Upgradable On-board	16MB	32MB	32MB	32MB
Cache Memory	N/A	64KB	64KB	128KB
Cache Upgrade	N/A	256KB	256KB	128KB
Floppy Drive(s)	1.2MB 1.44MB	1.2MB 1.44MB	1.2MB 1.44MB	1.2MB 1.44MB
Hard Drive	80MB	120MB	210MB	340MB
Graphic Card-SVGA	1024x768 512KB	1024x768 1MB	1024x768 1MB	1024x768 1MB
Monitor (Panasonic)	.28INT	.28NI	.28NI	.28NI
Mouse	Microsoft	Microsoft	Microsoft	Microsoft
Case	Desktop	Desktop/Vertical	Desktop/Vertical	Desktop/Vertical
Power Supply	200W UL	200W/250W UL	200W/250W UL	200W/250W UL
Price	**$1695**	**$2395**	**$3495**	**$4945**



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Season Specials

486-33	386-33	386-25SX
64K Cache	64K Cache	40MB
120MB	120MB	SVGA System
SVGA System	SVGA System	
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VP/ix (3+)	[illegible]
MultiView !	$280

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San Ramon Branch
156 Somerset Ct., San Ramon, CA 94583
Tel: 510/866-1958 Fax: 510/866-0376

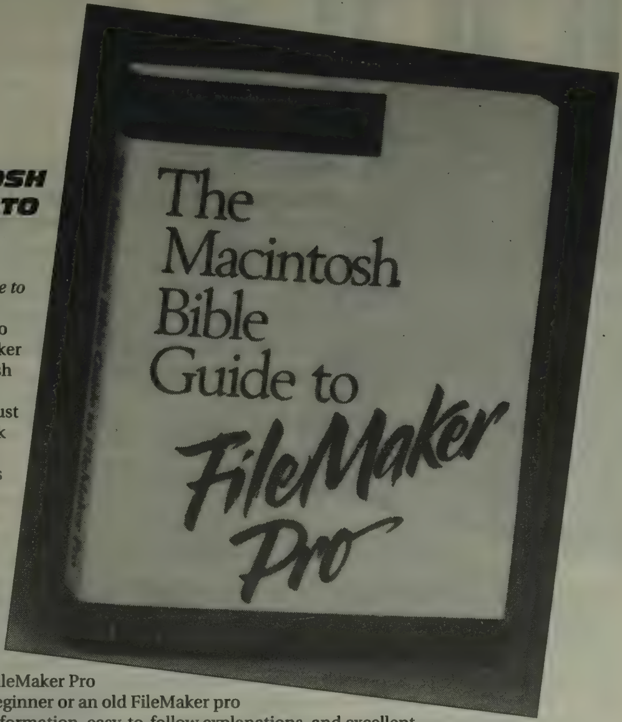
BOOKS

DOS: THE COMPLETE REFERENCE, THIRD EDITION

The third edition of *DOS: The Complete Reference*, by Kris Jamsa, covers all versions of DOS through DOS 5. This book is for first-time DOS users as well as the advanced user who wants to know the inner workings of DOS. Each chapter contains basic concepts using illustrations, hands-on examples, and review sections. There is also a section on "Advanced Topics." To complement the book's text, two diskette packages are available. The *DOS Help* diskette package provides an online discussion of every DOS command, its format, tips, and examples of its use. *DOS: The Complete Reference Companion Diskette* contains all the DEBUG script routines presented throughout the book, along with a collection of utility programs that you can use with the DOS pipe and I/O redirection operators, and within your DOS batch files. ($29.95, DOS Help disk, $24.95. Companion disk, $9.95) Osborne/McGraw-Hill, Inc., 2600 Tenth St., Berkeley, CA 94710. (510)548-2805.

THE MACINTOSH BIBLE GUIDE TO FILEMAKER PRO

The Macintosh Bible Guide to Filemaker Pro offers a systematic and easy way to better understand FileMaker Pro, the popular Macintosh database application. Written for all users, not just database experts, the book begins with fundamental database concepts, details FileMaker's capabilities and limitations, and includes practical solutions to many of the most common problems users confront. According to Dennis Marshall, Claris FileMaker Pro Product Manager, "This book is a must for every FileMaker Pro user—whether you're a beginner or an old FileMaker pro like me. Crammed with information, easy-to-follow explanations, and excellent tips, it will prevent frustration and save you valuable time." ($18) Goldstein & Blair, PO Box 7635, Berkeley, CA 94707. (510)524-4000.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FileMaker
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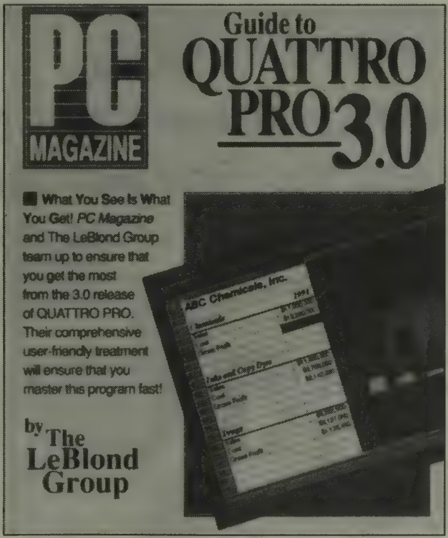
PC MAGAZINE
Guide to
QUATTRO
PRO 3.0
What You See Is What You Get! PC Magazine and The LeBlond Group team up to ensure that you get the most from the 3.0 release of QUATTRO PRO. Their comprehensive user-friendly treatment will ensure that you master this program fast!
by The LeBlond Group

GUIDE TO QUATTRO PRO 3.0

The *PC Magazine Guide to Quattro Pro 3.0*, a tutorial and reference book, is for all users wishing to quickly achieve maximum productivity on Quattro Pro v3.0. It provides a step-by-step tour of the spreadsheet, graphics, database, and WYSIWYG features. Divided into fifteen chapters and one appendix, this book examines almost every aspect of the program, including Managing the Desktop, Manipulating Data, Printing, Using the Graph Annotator, Networking and Customizing Quattro Pro, and Using Macros. ($27.95) Ziff-Davis Press, Inc., 5903 Christie Ave., Emeryville, CA 94608.

DOS SHAREWARE UTILITIES

Not long after the IBM PC was introduced, the idea of shareware was born. This book presents a collection of programs under the category loosely defined as DOS utilities, covering a wide range, performing a variety of tasks. They all are included because they don't fall under any of the other major software categories, e.g., business software, scientific software, programming software, etc. *DOS Shareware Utilities* gives you a look at some of the new shareware programs, tells you how they work, and how to register them. Also included with this book is a disk containing several featured programs. The disk allows you to immediately evaluate these programs firsthand. ($29.95) Windcrest/McGraw-Hill, Blue Ridge Summit, PA 17294-0850.

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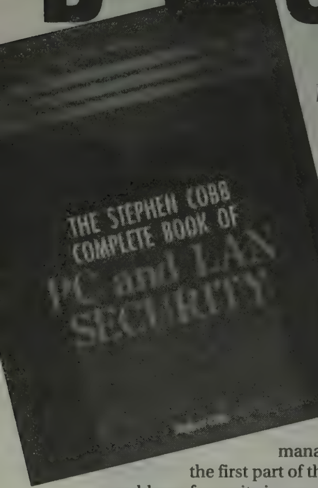
BOOKS

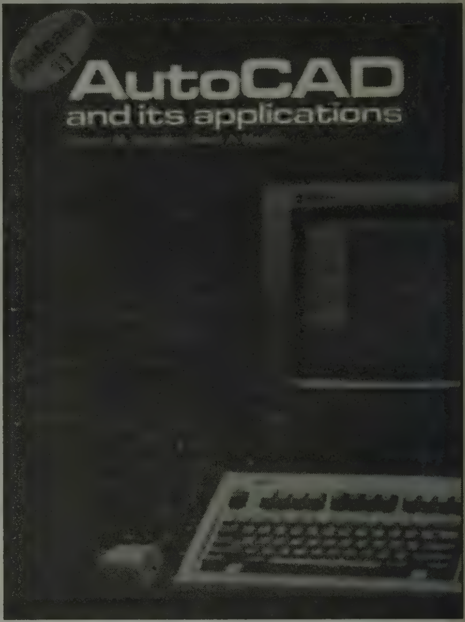


PC AND LAN SECURITY

The goal of *The Stephen Cobb Complete Book of PC and LAN Security* is to provide "a complete treatment of security issues facing those who work with personal computers, from corporate management, information technology managers, and end users." In the first part of the book, the overall problem of security is examined, including a discussion of several inexpensive measures that allow you to improve the security of your data. In the second part, the hardware side of the issue is addressed. The last part provides a collection of product descriptions and company names to use as a resource list to help implement a security plan. There are also tips, anecdotes, and other author's notes throughout the book that should help enrich your reading. ($24.95) Windcrest/McGraw-Hill, Inc., Blue Ridge Summit, PA 17294-0850.

AUTOCAD AND ITS APPLICATIONS

AutoCAD and Its Applications, designed for classroom use, is written with an emphasis on providing complete textual and graphic discussion of each AutoCAD, Release 11 command, along with accepted drafting techniques and standards. Drawing exercises and chapter tests placed after the important sections reinforce key AutoCAD concepts. Major sections are cross-referenced with the *AutoCAD Reference Manual,* making it easy to locate additional information on each topic, if needed. With this book, students will not only master AutoCAD commands, but also learn preliminary procedures, prototype drawing setup, and drawing plan sheets; office practices for firms using CAD systems; how to layout multiview drawings; and more. The appendices contain information on installing AutoCAD, hard disk management, multiple configurations, and batch file creation to run AutoCAD efficiently. ($34) Goodheart-Wilcox Co., 123 W. Taft Dr., S. Holland, IL 60473. (708)333-7200.



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- IMB RAM
- Teac 1.2MB or 1.44MB drive
- IDE controller (2FD/2HD)
- 2 serial & 1 parallel ports
- AT case with power supply
- 101 keyboard

$915

386-33MHz 64K Cache System

- IMB RAM
- Teac 1.2MB or 1.44MB drive
- IDE controller
- 2 serial/1 parallel/1 game ports
- AT case with power supply
- 101 keyboard

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MOTHER BOARDS

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386-25 NO CACHE BMP-ASIC	$450
MCC-USA	
486-33 W/256K CACHE	$770
486-33 W/64K CACHE	$695
ASUS	
486-33 EISA W/64K CACHE	$1375
486-33 ISA W/64K CACHE	$740
386-33 64K CACHE, W/CPU	$450
OTHERS	
486-33 64K CACHE, W/CPU	$695
386-33 64K CACHE, W/CPU	$395
386-40 64K CACHE, W/CPU	$410
386-25 NO CACHE, W/CPU	$299
286-12 W/CPU	$88

MONITORS

NEC	
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SONY	
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MF5221 21" .31, 1280X1024	$2045
MF5217 17" .28, 1024X768, 70	$1050
NANAO	
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VIEWSONIC	
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V-6 14"1024X768 NON-INT,0.28	$380
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V-4E 14" 1024X768, 0.29	$320
V-2 14" 640X480, 0.28	$290
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VIDEO CARDS

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ORCHID PRO-DESIGNER IIS W/1M 72HZ,32,768 COLORS	$195
ATI 8514/ULTRA 70Hz	$595
GENOA 6400A 70Hz 512K	$125
TRIDENT 1024X768, W/1M	$95
ET-4000 1024X768, W/1M	$120
GENERIC SVGA 1024 W/512K	$75
GENERIC VGA 800X600 W/256K	$58

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- SIMMS 1Mx9-70NS/80NS $40/39
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- COLORADO DJ-10/DJ-20 W/CK-17 CABEL $238/309

ACTIX	
CVP-640 VIDEO IMAGE CAPTURE SUBSYSTEM	$375
SPECTURUM W/1M,32,768 COL.	$175
QUANTUM VRAM W/1M	$299
TIGER-10/16X-60 60HZ, 1280X1024 1M VRAM,VGA PASS-THROUGH	$485
TIGER-10V/256E-50 50HZ	$545

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FC-10 CONTROLLER 500K/1M	$88
CK-17 CABEL	$12

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III (W/TONER)	$1495
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MEMORY CARD FOR IIP+,III,IIIP,IIID 1M $85, 2M $120, 3M $162, 4M $205	
CITIZEN	
200GX (9 PIN)	$165
GSX130/145 (24 PIN)	$235/389
PANASONIC	
KXP-1180(9PIN)/1123(24PIN)	$155/235
KXP-1624	$365

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CP-3104 IDE 100MB 25MS	$335
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CP-3204 IDE 200MB 16MS	$555
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XT4170E/S 154MB 14MS	$695
XT4380E/S 338MB 16MS	$965
XT8760E/S 676MB 16MS	$1285
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M2266 SCSI, 51/4" 1.2GB,16MS	$2150
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LPS52 IDE/SCSI 52MB,19MS	$205/225
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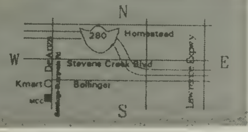
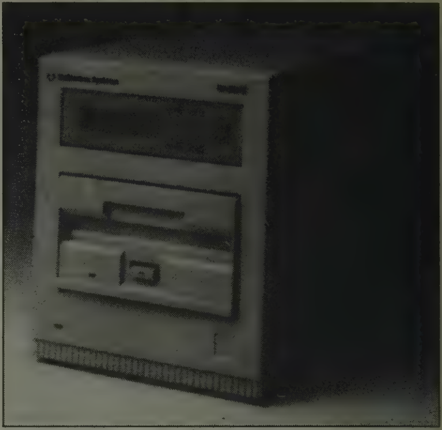


KAO
KC1.35GB
KAO

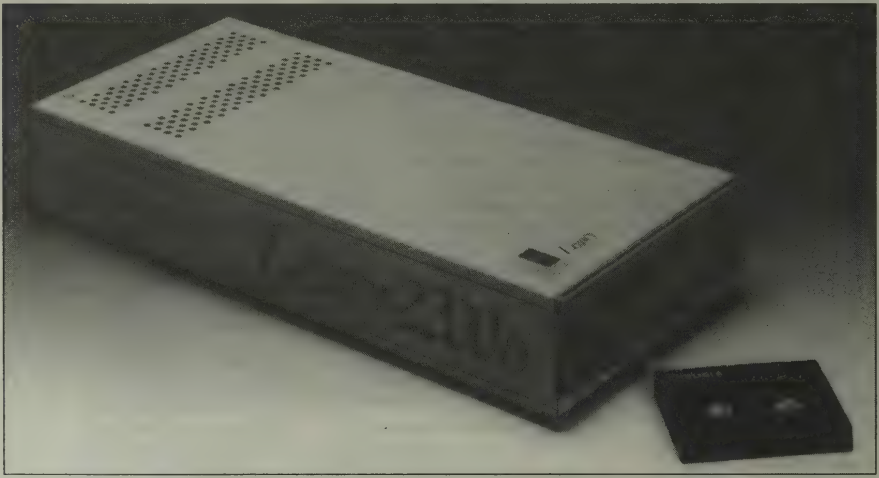
KAO INFOSYSTEMS 1.35GB DATA CARTRIDGE

KAO Infosystems has expanded its line of .25" data cartridges with a super high-capacity 1.35GB cartridge. The KC1.35GB cartridge is fully compliant with industry standards and incorporates a number of proprietary design features to improve overall performance and reliability, including: a thermal decoupled cover that improves tape path stability and tracking, a proprietary belt formation that allows for better tension control in all operating environments, and an improved tape guidance system for greater tracking accuracy and the ability to use cartridges in either horizontal or vertical positions. KAO Infosystems Co., 40 Grissom Rd., Plymouth, MA 02360. (508)747-5520.



REFLECTION SYSTEMS RF-5010X OPTICAL STORAGE

Reflection Systems has introduced a new 5.25" write-once optical storage system that eliminates the need for indexing and file management software and device drivers. The RF-5010X is equipped with a conversion unit that makes the system appear as a standard hard disk to the operating system. It is compatible with a multitude of operating systems, including MS-DOS, Macintosh Finder, A/UX, AIX, UNIX, and VMS/Ultrix. The RF-5010X comes with 128K of RAM and an ANSI-SCSI standard I/O interface. ($7950) Reflection Systems, Inc., 99 W. Tasman Dr., San Jose, CA 95134. (408)432-0943.

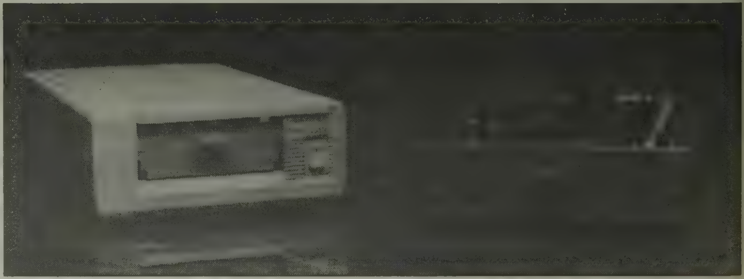


LEGACY 2200D DAT SYSTEM

The Legacy 2200D is a high-performance DAT backup/archival external subsystem for IBM, Compaq, and Macintosh computers. This external DDS/DAT device utilizes a SCSI interface. An extended length 90M computer grade cartridge can reach 2GB of capacity with data transfer rates of 11MB per minute. This unit is compatible with NetWare, UNIX, XENIX, and OS/2. Advanced error correction and detection capabilities include a third level of Error Correction Code, read-after-write checking, and data randomizing. ($3299) Legacy Storage Systems, Inc., 200 Butterfield Dr., Unit B, Ashland, MA 01721. (508)881-6442.

EVEREX EXCEL 120F

The Excel 120F is a 120MB floppy tape backup that comes in a choice of 3.5" or 5.25" form factors to accommodate a variety of system tapes. This unit includes data compression software that can double its capacity. Everex's FTAPE software handles all backup functions and allows for background formatting. The Scheduler utility software is also included to provide users with unattended backup capability. The Excel 120F is built on a die-cast metal frame for durability and includes front panel status LEDs. ($359) Everex Systems, Inc., 48431 Milmont Dr., Fremont, CA 94538. 1-800-628-3837.



BASIC SYSTEM CONFIGURATION

Motherboard & CPU, 1 MB (512kb for 286 systems) memory installed, 1:1 2HD/2FD controller, 1.2 MB or 1.44 MB Floppy Drive, Internal clock/calendar, Mathematical coprocessor socket, Enhanced case with Power Supply, and 101-key Enhanced Keyboard.

486-33C EISA w/64k cache	$1,455
486-25C EISA w/64k cache	$1,405
486-33C ISA w/cache	$785
486-25C ISA w/cache	$735
486SX-20C w/cache	$585
386-40C w/64k cache	$545
386-33C w/64k cache	$535
386-33	$518
386-25C w/64k cache	$495
386-25	$445
386SX-25	$388
386SX-20	$368
386SX-16	$335
286-25	$318
286-20	$288
286-16	$258
286-12	$248

HARD DRIVES

40MB/28ms (IDE)	$174
80MB/18ms (IDE)	258
100MB/18ms (IDE)	288
120MB/16ms (IDE)	328
130MB/15ms (IDE)	$328
200MB/16ms (IDE)	528
200MB/16ms (SCSI)	648
338MB/16ms (IDE or SCSI)	948
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MISCELLANEOUS

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14" VGA Color Monitor with 16-bit VGA card	248
12"/14" Mono Monitor w/MGP card	88/108
Monographic card with printer port	15
NEC 5D/4DS/3DS/2A	1948/988/538/398
Sony 1304 HG (1024x768, 0.25)	548
Nanao 9070U/9080i	894/1048
Oak VGA 256K/512K	38/48
Trident 1MB (1024x768x256)	78
Ahead VGA Wizard Deluxe w/1MB (70 MHz)	138
Orchid Prodesigner IIs w/1MB (w/sys. purch.)	BEST
Diamond Speed Star w/1MB	144
Motherboard with CPU	Call
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$2,210

486-33C
ISA w/cache system
Basic System Configuration ■ 120 MB, 18ms Hard Drive ■ 14" SVGA Monitor w/16-bit SVGA card
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486-25C
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386-33C
w/64K cache system
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SVGA system
Basic System Configuration ■ 80 MB, 18ms Hard Drive ■ 14" SVGA Monitor w/16-bit SVGA card
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w/64K cache system
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386-25
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Basic System Configuration ■ 40 MB, 28ms Hard Drive ■ 14" SVGA Monitor w/16-bit SVGA card
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386SX-16
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Basic System Configuration ■ 40 MB, 28ms Hard Drive ■ 14" SVGA Monitor w/16-bit SVGA card
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286-25/286-20
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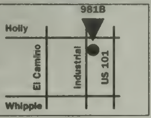

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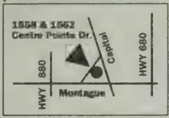
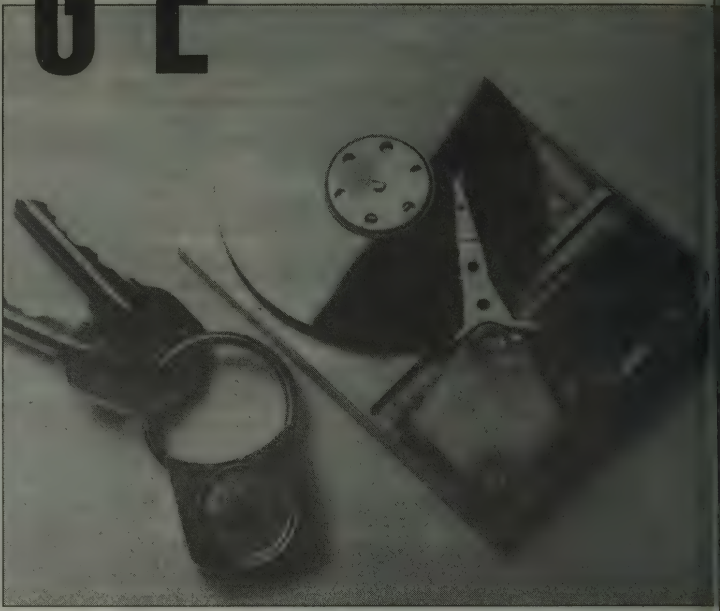


STORAGE

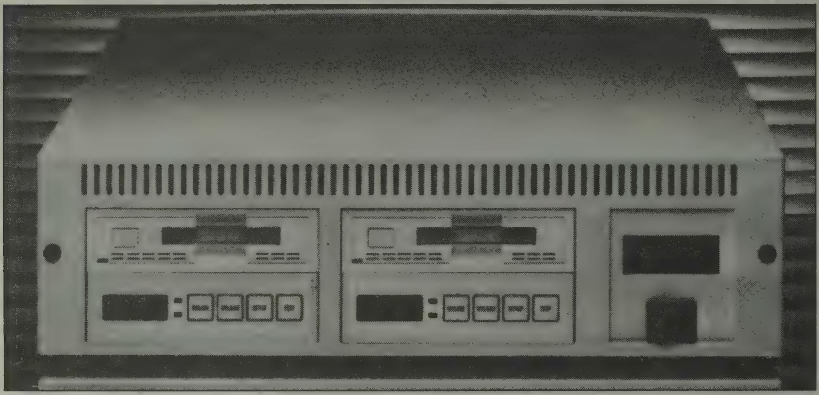
TALLGRASS HIGH-CAPACITY TAPE BACKUP

The Tallgrass FS250 offers a tape backup solution for personal workstations. It connects directly to the floppy controller of the host system, allowing a transfer rate of 500K per second. The FS250 uses the industry standard QIC-80 format that allows tape interchange with other brands of tape devices, and provides for read interchange with QIC-40 devices. The FileSECURE software that is bundled with the system offers a data compression capability that more than doubles the 120MB capacity of the DC2120 cartridge. It also includes a search algorithm that allows the system to maintain its high-speed capabilities when restoring from compressed file sets. This unit is supported in both DOS and NetWare environments for both ISA and MCA bus computers. ($575 for an internal drive, $825 for an external system) Tallgrass Technologies Corp., 11100 W. 82nd St., Lenexa, KS 66214.



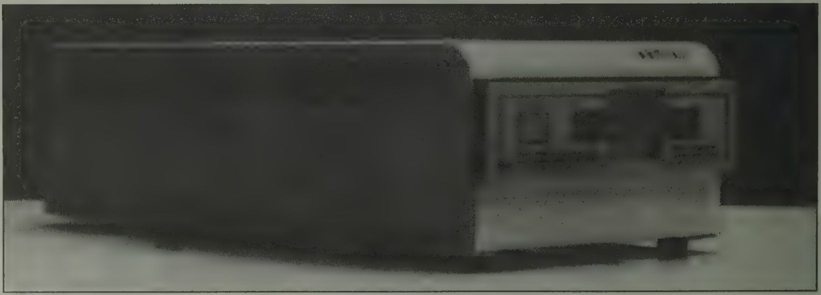
FUJITSU 2.5" DISK DRIVE

Fujitsu now offers a high-capacity, low-profile, and low-power-consuming 2.5" Winchester disk drive for laptop and notebook computers. The M263x features capacities up to 90MB and proprietary power management technology that maximizes battery life. Two formatted capacities are available—45MB and 90MB—along with two interface options, SCSI and PC-AT. The M263x drive maintains a 150,000 mean-time-between-failure rating. ($395) Fujitsu America, Inc., Computer Products Division, 3055 Orchard Dr., San Jose, CA 95134. 1-800-626-4686.



GIGATREND MASTERDAT NETWORK DAT

MasterDat is a DAT drive that performs network backups of all fileservers on a Novell network, including local disk drives, at 35MB per minute. Connected to a network node rather than the fileserver, MasterDat distributes file backups from all nodes on the network, while still retaining centralized control of the backup resources. MasterDat enables any user on a network to back up to a shared DAT device. Under Portable NetWare, the drive works with midrange system files including those from NCR, Data General, Prime, and others. MasterDat ranges in capacity from 1.2GB to 2.5GB per drive. When the devices are daisy-chained, all the drives can be working simultaneously on seven DAT cassettes. (List price begins at $6950) GigaTrend, Inc., 2234 Rutherford Rd., Carlsbad, CA 92008. (619)931-9122. BBS, (619)566-0328.



IDENTICA TAPE STORAGE FOR NETWORKS

The half-height, Identica-brand DC-1000 tape backup system is designed for data-intensive storage requirements of midrange systems, file servers, and workstations. It features 1GB of formatted capacity on a single cartridge. This unit includes an embedded high-performance SCSI II interface compatible with IBM PC and PS/2 systems and compatibles and supports SCSI Common Command Set. It has a 256K buffer, a data transfer rate of 240K/second, and a burst transfer rate of 1.5MB/second. The DC-1000 is also fully compatible with TapeWare, a VAP in the NetWare 286 environment, and as an NLM for NetWare 386. ($2550) Prima Storage Solutions, Inc., 3350 Scott Blvd., Bldg. 7, Santa Clara, CA 95054. 1-800-288-TAPE.

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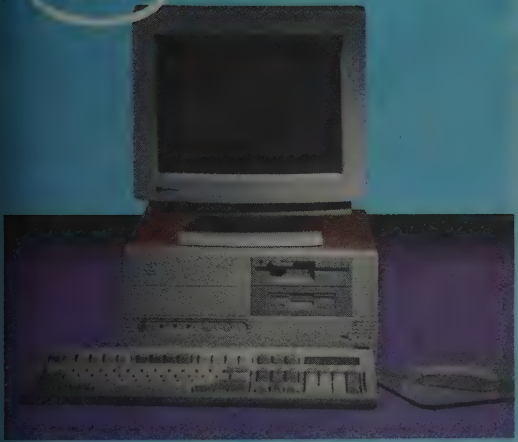

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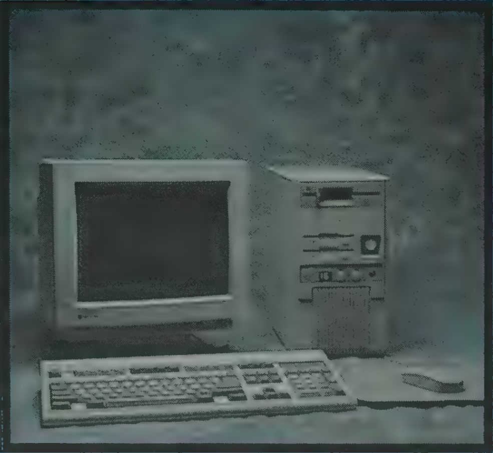

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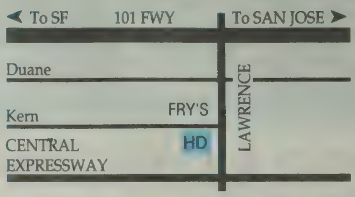
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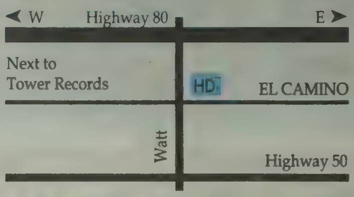
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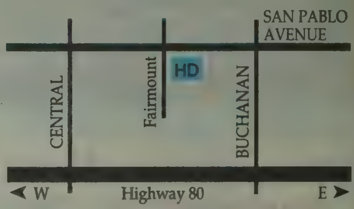
10005 SAN PABLO AVE., EL CERRITO, CA 94530
FAX: (415) 528-0757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Fairmount
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Highway 80
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PRINTERS

BUYERS GUIDE

UDP TURBOCARD FONT CARD

The TurboCard font card is UDP Data Products' first product in its line of compatible fontcards for the IBM 4019 series LaserPrinter. It has over two hundred fonts, ranging from 3.6 point size for spreadsheets to 18 point for headlines. The TurboCard can be used in both the HP emulation and IBM native modes and works in PC, mini, and mainframe environments. It comes with printer drivers for WordPerfect 5.0 & 5.1, Microsoft Word 5.0, and Windows 3.0. In addition, most fonts on the card can be accessed through standard drivers that come with most software, such as "25 Cartridges in One," ProCollection, and IBM's Universal Card drivers. ($249) UDP Data Products, Inc., 2908 Oregon Court, Bldg. I-2, Torrance, CA 90503. 1-800-888-4413.

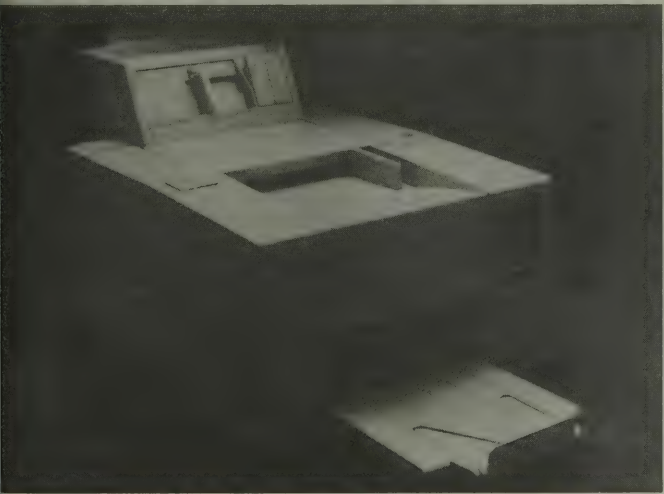
TurboCard
TurboCard
Font Card For IBM 4019 Laser Printer

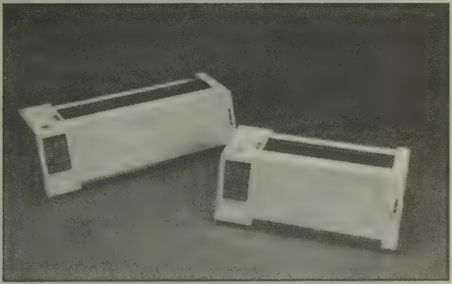
FUJITSU DL3600 DOT-MATRIX PRINTER

The new DL23600 24-wire dot-matrix printer is a mid-range printer that competes head-to-head with the competition. It has a print speed of 360 characters per second (cps) for drafts and 108cps for letter-quality printing. The DL3600 can handle both continuous forms and cut sheet paper. Fujitsu offers an optional single- and double-bin sheetfeeder for preloading different paper stocks. By adding the optional color kit, the DL3600 can print vibrant, full-color images to give charts, graphics, and presentations more impact. Bundled with the DL3600 is ZipType, a pop-up utility that can be programed to create templates for swift completion of commonly used business forms; Creative Faces, that gives the users access to thirty-five scalable PostScript-compatible fonts; and DLMenu to assist users in custom configuring and setting up their printer. ($949) Fujitsu America, Inc., 3055 Orchard Dr., San Jose, CA 95134-2022. 1-800-626-4686.

ALPS PRINTER FOR LANS

The ALPS LSX1600 sixteen-page-per-minute laser printer incorporates two built-in paper bins and an integrated envelope feeder to easily print a complete job in one request—from letterhead to plain second sheet to an addressed envelope. It is HP LaserJet Series II compatible and can be upgraded for PostScript compatibility by adding an optional cartridge. In addition to the twenty-four built-in fonts, the ALPS LSX1600 also supports the family of HP soft fonts and font cartridges. Printer resolution is 300 x 300 dots per inch. The printer comes with 1MB of memory, expandable to 7MB, and two types of interfaces for connecting the printer to the computer: RS-232 serial and Centronics parallel. ($3295) ALPS America, Inc., 3553 N. First St., San Jose, CA 95134. (408)432-6000.





LEXMARK 24-WIRE PC PRINTER

Lexmark introduced a new resolution, letter-quality, 24-wire model of the IBM Personal Printer Series (PPS) II family of dot-matrix printers. The PPS II printers, jointly developed by Lexmark and IBM Japan, offer many features. It offers a straight paper path that greatly improves paper handling. The choice of five different paper feeds, a switchable push/pull tractor, and a paper parking function make these printers highly versatile. In addition, the PPS II printer supports an optional cut sheet feeder and can easily switch from auto sheet feed to continuous forms printing. Plus, the new simple-to-operate panel features one-touch selection of fonts and pitches. ($499 for narrow-carriage, and $699 for wide-carriage models) Lexmark International, Inc., 740 New Circle RD., Lexington, KY 40511. (606)232-6906.

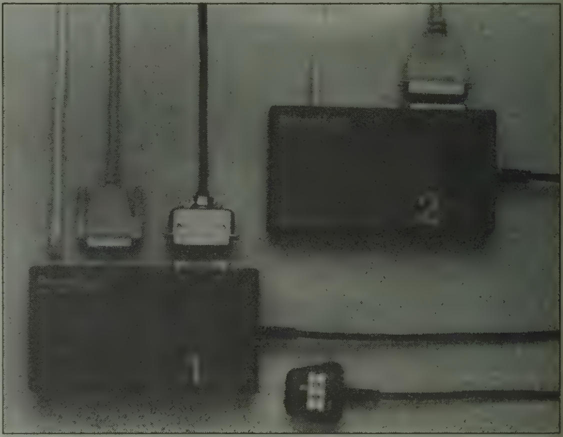
PRINTERS

RASTEROPS CORRECTPRINT 300

CorrectPrint 300 is a 24-bit, 300-dot-per-inch, four-color (CYMK) dye-sublimation printer with photorealistic output. The dye-sublimation process allows the highest-quality color output on the desktop from a proofing printer since it uses True Color at every pixel without dithering. To speed up the printing on large 24-bit image files, RasterOps includes a 33MHz MIPA RISC Raster Image Processor on the controller board. The CorrectPrint 300 includes thrity-five resident fonts and PostScript-compatible software. With built-in EtherTalk, AppleTalk, and serial interfaces, this printer is ideal for networked environments. ($10,999) RasterOps Corp., 2500 Walsh Ave., Santa Clara, CA 95051. (408)562-4200.

COPAL SLB-9000 LASER PRINTER

The Copal SLB-9000 is the industry's first 900 x 900 dpi, twelve-page-per-minute laser printer. The printer was developed for pre-press proofing, camera-ready master making, and offset press plate making for a wide range of graphics and printing applications, including newspapers, in-house publishing departments, DTP, CAD/CAM engineering, and forms manufacturers. It also can print on 11.7" x 20" plain paper and can create polyester plates. Making plates on a laser printer eliminates film, processing chemicals, stripping, and other steps required for preparing the plate for the press. ($12,000) Copal Co., Ltd., 50 Airport Pkwy., Suite 109, San Jose, CA 95110. (408)437-7738.

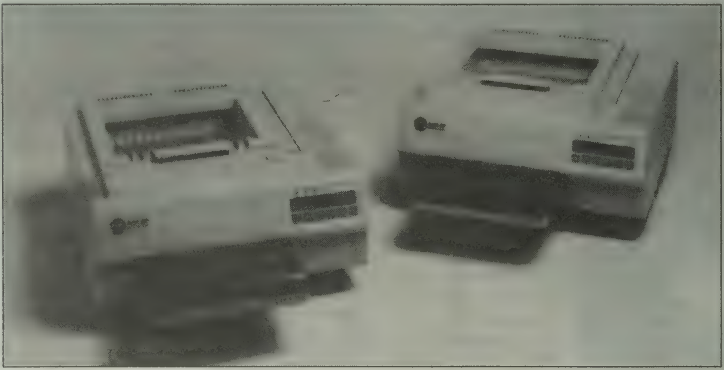


GEC-MARCONI FOR PC PRINTER SHARING

PrinterLink, a modular printer sharing system, provides a plug-and-play alternative to a local area network for organizations that require a price-competitive printer sharing capability. Designed to make printer sharing invisible to users, each PrinterLink includes 128K of built-in buffer memory, sufficient to hold sixty-four pages of text. Once the print command is entered, the PC is immediately freed to continue with other tasks. PrinterLink consists of two components: one that connects the first PC to any parallel printer, and another that links the first PC to subsequent PCs in a daisy chain configuration. ($150 per unit with 5' of parallel cable and 39' of RJ cable) GCE-Marconi Software Systems, Inc., 12110 Sunset Hills Rd., Suite 450, Reston, VA 22090. (703)648-1551.

NEWGEN PRO SERIES LASER PRINTERS

The star of the Pro Series of RISC-based, high-resolution laser printers from NewGen System is the TurboPS/840e. This 800 x 400 dpi laser printer features 6MB of RAM, Image Enhancement Technology (IET), and the Canon SX engine. The proprietary Automatic Recognition Technology (ART) provides interface switching between Centronics parallel, RS-232 serial, AppleTalk, and ethernet. NewGen is compatible with TCP/IP and Novell protocols, and comes with printer software to offload the network file server. Standard emulations include PostScript-compatible, HP PCL LaserJet Series II, and HPGL. The Pro Series includes thirty-five Apple LaserWriter-compatible fonts, the standard set of HP LaserJet II and HPGL fonts. Compatibility extends to all Adobe Type 1 and 3, TrueType, Casady & Greene, The Font Company fonts, and many others. New communication software, emulations, and new levels of PostScript are easily added through Program Updating in minutes, using NewGen's update utility. This eliminates ROM or other hardware replacement. ($1599) NewGen Systems Corp., 17580 Newhope St., Fountain Valley, CA 92708. (714)436-5100.



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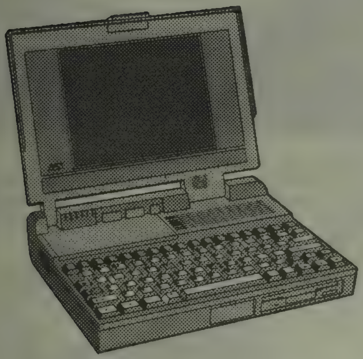

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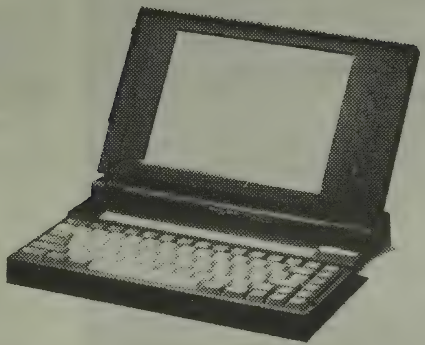

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Includes:
- **386SX-20 processor**
- **20Mb ,40Mb, or 60Mb Hard Disk**
- **Backlit VGA screen**
- **Battery pack**
- **Carrying case**
- **External monitor port**

EVEREX TEMPO LX

Includes:
- **386SX-20 processor**
- **40Mb or 60Mb Hard Disk**
- **Backlit VGA screen**
- **Battery pack**
- **Carrying case**
- **External monitor port**

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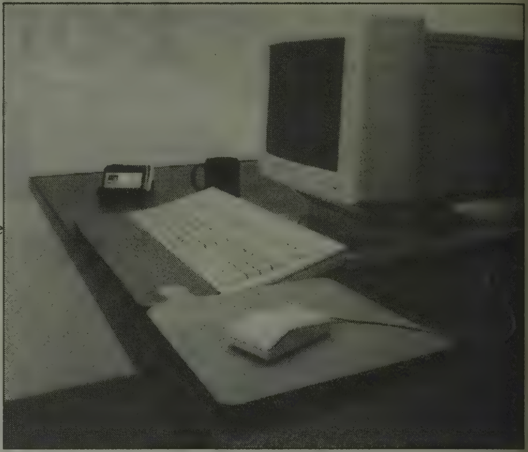
ACCESSORIES

LOGITECH 2D/6D MOUSE

Logitech's 2D/6D Mouse provides an innovative and intuitive means for users to input three-dimensional, spatial information into a computer. This information is useful for applications such as CAD/CAM, computer simulation, computer modeling, and virtual reality environments. The 2D refers to a two-dimensional mode of operation, such as on a desktop. Within 6D space, the mouse reports three coordinates (X, Y, and Z) and three angular positions (pitch, yaw, and roll). The system uses ultrasonic technology between the receiver mouse and a transmitter triangle to communicate spatial information to the system. The mouse contains three microphones that sample signals at a rate of fifty times per second, sent by three speakers contained in the triangle. (Developer Kits are available for $1000) Logitech, Inc., 6505 Kaiser Dr., Fremont, CA 94555. (510)795-8500.

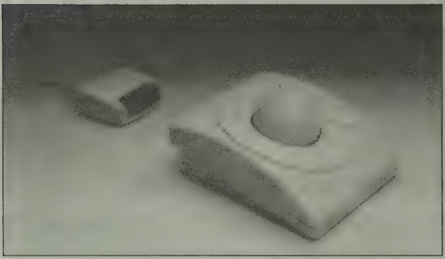
KINECTO PUZZLE PADS



Wrist pads are becoming standard equipment at everyone's workstation. The Kinecto Puzzle Pads from Silicon Sports offer a fun, attractive, and completely functional way to integrate a wrist pad with mouse pad or trackball pad. Like two puzzle pieces, these pads connect with a snug, stylish fit. They are made from a patent pending, three-layer SoftCel construction. The base is a 1/2" of washable, sturdy, closed-cell neoprene to serve as a comfortable rest while working; the top layer is a nylon coat that resists wear and adds color to the desktop. Pads are available in either a left- or right-hand version. One of the best advantages provided by the Puzzle Pads is allowing users to keep their wrist and hand at the same level when moving between the keyboard and the mouse or trackball. (Kinecto Puzzle Wrist Pad, $19.95; Mouse Pad, $19.95; Track Pad, $12.95) Silicon Sports, Inc., 1180 Sherman Ave., Menlo Park, CA 94025. 1-800-243-2975.

PANAMAX REMOTE CONTROL POWER

REMOTEMAX is a new remote control module that will enable any 15-amp protection device to be turned on and off remotely. This master on/off switch attaches to the AC plug of any surge protector and plugs into a standard AC outlet, which enables the user to turn on or off anything that is plugged into the surge protector from a convenient location on the desktop. REMOTEMAX provides fingertip control for computers and peripherals. It features an 8' line cord that attaches easily to any flat surface. ($19.95) Panamax, Inc., 150 Mitchell Blvd., San Rafael, CA 94903-2057. 1-800-472-555.



CORDLESS TRACKBALL

An ergonomically designed cordless trackball affords a high level of comfortable fingertip control and eliminates cable clutter. There is no physical connection between the trackball and the computer. Commands are transmitted to the computer using an infrared transmitting beam and a small receiver. It can operate from the palm of your hand, your lap, or wherever is most convenient. A high transmission mode allows operation at up to 15 feet away from the receiver, making it ideal for overhead computer presentations. Models are available for IBM AT, XT, PS/2 and compatibles, and Macintosh computers. ($129.50) D1 International, Inc., 95 E. Main St., Huntington, NY 11746. (516)673-6866.

PROXIMA POWERTOUCH DESKTOP CONTROL

PowerTouch is a desktop power protection and control center device. In addition to exceeding all industry standards for surge, spike, and EMI/RFE noise protection, the product eases electrical cord management while providing eye-level system status information. PowerTouch is compatible with all desktop systems, including Macintosh Classic, floor-standing computers, and portable computers with separate monitors, and is designed to sandwich between a desktop computer and its monitor. ($79.95) Proxima Corp., 6610 Nancy Ridge Dr., San Diego, CA 92121. (619)457-5500.

Network Products for Less!

Lan Cards

Arcnet

SMC PC-130 8-BIT COAX	96
SMC PC500FS 16-BIT COAX	315
SMC EISA 32-BIT COAX Arcnet or TP Arcnet	743
SMC PC500WS 16-BIT COAX	170
Thomas Conrad 8-BIT COAX STAR/BUS	92/106
Thomas Conrad 16-BIT COAX STAR/BUS	240/270
Thomas Conrad MC COAX STAR or TP STAR	258
Tiara Lancard/A PC TP 8-BIT/AT TP 16-BIT	139/195
Tiara Lancard/A PC COAX 8-BIT/16-BIT	99/190
Tiara Lancard/A Hiz BUS PC/AT	146/206

Ethernet

Aquila Ethernet COAX 16-bit or MC	145
3COM 3C503 5 Pak, No Doc or Driver	804
3COM 3C503 ETHERLINK II	189
3COM 3C523B ETHERLINK/MC	290
3COM 3C523B ETHERLINK/MC 5 PK	1255
3COM 3C507 5PK, No Doc or Drivers	1,345
3COM 3C507 16-BIT ETHERLINK *(new lower price)*	250
3COM 3C523B 5PK Micro Channel	1,218
3COM 3C543 ETHERLINK/NB (MAC)	401
Everex SPEEDLINK PC COAX 8-BIT/16-BIT	120/180
Intel ETHEREXPRESS 16	**145**
Novell NE2/2-32A 32-BIT MC	581
Novell NE1000 8-BIT/NE2000 16-BIT	172/202
Novell NE2/2A Micro Channel	271
Novell NE3200 32-BIT EISA	820
Racal ES3210 32-BIT EISA	708
SMC 3016/MC COAX	219
SMC 3016 16-BIT COAX	175
SMC 3008 8-BIT COAX	144
Thomas Conrad 16-BIT RJ45/BNC	315
Thomas Conrad 16-BIT COAX	279
Tiara Lancard/E AT 16-BIT COAX	209
Tiara Lancard/E 2000 COAX	165
SMC Ethercard ELITE 8/16 COAX	155/190
SMC Ethercard PLUS-A FOR PS/2	236
Xircom External Ethernet Adapter	413

Token Ring

3COM TOKENLINK	386
Everex TOKEN RING-PC	425
Everex SPEEDLINK MAU	597
Everex SPEEDLINK TR MC 16MB	604
Everex 4 MBPS TOKEN RING ADAPTER	336
Madge 8-BIT, 4MBPS SMART RINGNODE	357
Madge 16-BIT, 4MBPS SMART RINGNODE	486
Madge EISA, 4/16MBPS SMART RINGNODE	971
Madge MC, 4MBPS SMART RINGNODE	486
Madge MC, 4/16MBPS SMART RINGNODE	662
Pure Data 16-BIT TOKEN RING	455
Tiara TOKEN RING 8-BIT/16-BIT	298/385
WD TOKENCARD MASTER 4MBPS 16-BIT	438
WD TOKEN RING ADAPTER BOARD	310

10 Base-T Twisted Pair Ethernet

Accton 10BASE-T tranceiver (AUI to RJ45)	100
Tiara 10BASE-T transceiver (AUI to RJ45)	110
Gateway 10BASE-T transceiver (AUI to RJ45)	120
Racal 10BASE-T transceiver (AUI to RJ45)	110
3COM 3C503TP 10BASE-T	263
3COM 3C523B 10BASE-T MC	321
3COM 3C503TP 5PK ETHERLINK II	1,126
3COM 3C507TP 16-BIT 10BASE-T *(new lower price)*	299
3COM 3C507TP 16-BIT 10BASE-T 5 PAK	1,603
3COM 3C586 10BASE-T 5 PAK	1,368
3COM 3C586 10BASE-T MODULE	304
3COM 3C523B 10BASE-T MC 5PK	1,445
Accton 10BASE-T 8-BIT/16-BIT	171/185
Aquila 10BASE-T 8-BIT/16-BIT	125/155
Aquila 10BASE-T MC	160
Intel ETHEREXPRESS 16 TP	**155**
SMC 3008TP 8-BIT Twisted Pair	188
SMC 16-BIT Twisted Pair MC	231
Tiara 10 BASE-T 8-BIT/16-BIT	193/210
Thomas Conrad 16-BIT w/ RJ45	279
SMC Ethercard PLUS 10T 10BASE-T	202
SMC Ethercard ELITE 16T 10BASE-T	225
SMC Ethercard ELITE 16 COMBO	235

Pocket Adapters for Laptops

Aquila Ethernet ADAPTER BNC	225
Aquila 10BASE-T Ethernet (RJ45)	225
Aquila Arcnet ADAPTER	195

SPECIALS

NOVELL NETWARE LITE Starter Kit

Includes 2 **Novell NetWare Lite v1.0** Network Operating Systems, 2 **Aquila** 16-bit high performance cards for coax ethernet setups OR 1 **Aquila** 16-bit card and 1 **Dlink** internal 4-port concentrator/10 BaseT card combo for 10 BaseT installations, 2 **DR DOS 6.0 (while supplies last)** and full documentation. Cable and terminators are included with coax kit. Easy, fast installation; runs peer-to-peer or dedicated; small RAM overhead.

Ethernet Starter Kit	**$428**
10 BaseT Starter Kit	**$608**
One node bundle (Coax Ethernet)	**$214**
One node bundle (10 BaseT)	**$224**

Intel EtherExpress LAN cards. 16-bit lan cards at the price of most 8-bit cards. Features auto config., board level & on-network diagnostics, LANSight Express remote node mgmt. software incld. free, boot prom option.

Coax	**$145**
10BaseT	**$155**
Bus Mastering 32-bit EISA	**CALL**

Dlink Ethernet ADAPTER BNC	250
Dlink 10BASE-T ADAPTER	250
Xircom Arcnet ADAPTER TP	247
Xircom Arcnet ADAPTER COAX	267
Xircom TR ADPTR W/RJ11	585
Xircom Ethernet ADPTR BNC	345
Xircom Ethernet ADPTR 10 BASE-T	378

Hubs & Concentrators

Dlink 4-port int. 10 BASE-T concentrator	325
FastLink 4 port int./8 port ext. active hub	99/199
Thomas Conrad Smart Hub 8 BNC/16 BNC	499/719
Gateway 22 port 10 BASE-T Hub	1,675
Accton 12 port 10 BASE-T Hub	750
Aquila 12 port 10 BASE-T Hub	725
Exos 16 port 10 BASE-T Hub	825
Accton EtherRepeater 2 AUI/2 BNC	685
IMC Dual Port Ethernet Repeater BNC/BNC	599

Network Utilities

Novell NetWare Lite v1.0	89
cc:MAIL DOS platform (user pak req.)	135
cc:MAIL Lan Package for DOS + 8 USERS	135
cc:MAIL Lan Package for DOS + 25 USERS	409
Thomas Conrad TXD Network Diag.	150
Tiara Network Inspector	150
Cheyenne-Monitrix Network Mgmt.	595
Cheyenne Utils for NetWare 286/386	262
Cheyenne ARCserve tape software VAP	792
Cheyenne ARCserve tape software NLM	1265
Fresh Tech. NetVision Network Mgmt.	321
Fresh Tech. Modem Assist 1-5	321
Fresh Tech. Map Assist	226
Fresh Tech. Printer Assist	175
Direct Access Network	366
XtreeNet Network File Manager	305

Diskless Workstations

386/SX 1MB, MONO	999
386/SX 1MB, VGA	1,399
386/33 2MB, MONO	1,599
386/33 2MB, VGA	1,999
386/40 2MB, MONO	1,900
386/40 2MB, VGA	2,300

Uninterruptible Power Supplies

APC UPS monitor card for NetWare	80
APC250 (200watt UPS for workstations)	140
Emerson ACCUCARD internal battery backup	190
Elgar IPS560 (500w)	425
Elgar IPX1100SL (1000w)	539
Elgar VAP/NLM for UPS	75

Cabling Supplies

RG58/RG62 Rachet BNC Crimper	75
RJ-45 Twisted Pair Crimper	75
RG58 Ethernet BNC-Crimp (100 pak)	125
RG62 Arcnet BNC-Crimp (100 pak)	125
BNC in-line splice connector (10pk)	30
50 Ohm terminators (5pk)	30
95 Ohm terminators (5pk)	30
Arcnet Passive Hubs (5pk)	50
Belden PVC RG58 cable (1000' min)	175
Belden PVC RG62 cable (1000' min)	165
Belden 25' RG58 Ethernet patch cable	25
Belden 25' RG62 Arcnet patch cable	25

Network Fax

Complete PC FAX/Gateway (unlimited)	717
Calculus EZ-FaxLAN (unlimited)	1,499
GammaFax CP	769
GammaNet Software	938
GammaPage	358
OAZ NetFax Manager (100 users)	1,499
Intel SatisFAXtion Classic Version AT bus	399
Intel Net SatisFAXtion network fax software	653
Jetfax II Model 9250 w/PC Send Software	699

Tape Backup Solutions

Irwin Accutrak 120MB	225
Irwin Accutrak 120MB KIT	296
Irwin Accutrak 250MB	296
Irwin Accutrak 250MB KIT	385
Colorado DJ-10 120MB	270
Colorado DJ-20 250MB	330
Tallgrass FileSecure 500i (500MB)	1,058
Tallgrass FileSecure 1000i (1 GB)	1,599
Tallgrass FileSecure 1300i (2.6 GB)	2,399
Mountain FS2100 2.2GB Ext. 8MM, SCSI	4,924

Server Based

Sysgen MAXI 1.3gb int. DAT w/VAP	3,032
Sysgen MAXI 1.3gb int. DAT w/NLM	3,222
Sysgen MAXI 1.3gb ext. DAT w/VAP	3,159
Sysgen MAXI 1.3gb ext. DAT w/NLM	3,348
Exabyte 2.2 gb int. 8MM w/ VAP	3,375
Exabyte 2.2 gb int. 8MM w/ NLM	3,899

LANtastic Products

LANtastic AE-1 10BaseT Adapter (new product)	call
LANtastic AE-2 Ethernet Starter Kit	535
LANtastic AE-3 Starter Kit	560
LANtastic AE-2 Ethernet Adapter	250
LANtastic AE-3 Combo Adapter (new product)	265
LANtastic 2Mbps Starter Kit	385
LANtastic/AI Adapter Independent(single node)	99
LANtastic Network Eye	199
LANtastic Central Station (new product)	call
LANtastic for NetWare (new product)	305

Macintosh Products

Ethernet

3COM 3C543 ETHERLINK/NB	386
3COM 3C563 ETHERLINK/SE	321
Everex SPEEDLINK/SE	253
Everex SPEEDLINK/SE30	253
Everex SPEEDLINK/MAC II	253

10 Base-T Twisted Pair Ethernet

Everex SPEEDLINK/SE TP	253
Everex SPEEDLINK/MAC II TP	253

Accessories

Intel Netport for Ethernet	485
Intel Netport for 10 BASE-T	475
Intel Netport for Token Ring	830
Microtest Cable Scanner Kit	1,110
Microtest Pair Scanner Kit for 10 BaseT	1,957
Xircom Parallel Port Multiplexor	71
Hitachi 1750S CD-ROM Kit	725

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Da Vinci Systems, DCA, Digiboard, Computone, GigaTrend, Isolan (BICC), Interactive Systems, NetWorth, Palindrome, Pinnacle Micro, Proteon, Racal Interlan, SCO, Storage Dimensions, SynOptics, Tecmar, Wollongong.

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486SX-20 MHz

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- 8K Internal Cache
- Shadow RAM
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- 2 Serial, 1 Parallel
- 101 Enhanced Keyboard
- Tower or Desktop case w/power supply
- Supports MS/DOS, OS/2, Xenix, Unix

OPTIONAL:

w/system purchase

- 12″ Mono Monitor & Card $90
- VGA Monitor (640x480) w/16 bit 800x600 Card $245
- Super VGA Monitor (1024x768 0.28) w/SVGA Card 512K $285
- Super VGA Monitor (1024x768 0.28) w/SVGA Card 512K $335
- Non-interlaced SVGA Monitor (1024x768 .28) w/1MB Card $420
- Orchid Prodesigner II/s 1MB w/SONY 1304 $735

$390

386-SX 25 MHz

- Landmark=36
- 1 MB Expandable to 8 MB
- Shadow RAM
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386-SX 16 MHz

- Landmark=21
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286-12 MHz 0 Wait

- 6/12 MHz 0 Wait
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- C & T Chip Set
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- Landmark=16
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- Real Time clock
- 1.2 or 1.44 MB Floppy Drive
- Tower or desktop case w/power supply
- 101 Enhanced Keyboard

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386-33 MHz 64K Cache

- 1 MB Expandable to 32 MB on Board
- 64K Static Cache Memory
- Landmark=57
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386-25 MHz 64K Cache

- 1 MB Expandable to 8 MB
- 64K Static Cache Memory
- Landmark=40.5
- Shadow Ram
- 1.2 or 1.44 MB Floppy Drive
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- Socket for 80387
- 2 Serial, 1 Parallel
- Tower or desktop case w/power supply
- 101 Enhanced Keyboard
- Supports MS-DOS, OS/2, Unix, Xenix

$465

386-25 MHz

- Landmark=36.7
- 1 MB Expandable to 8 MB
- Shadow RAM, Page Interleaved Memory
- Socket for 387, Weitek 1167
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Motherboard

8088 10 MHz	$65
286 6/12 MHz	85
286 8/16 MHz	95
386-SX 16 MHz	180
386-SX 25 MHz	225
386-25 MHz	295
386-25 MHz 64K Cache	335
386-33 MHz 64K Cache	375
486SX-20 MHz	450
486-25 MHz	650
486-33 MHz w/64K Cache	695

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Western Digital 40 MB IDE (28 MS)	$165
NEC 3142 (44/66 MB, 24 MS)	275
Western Digital 85 MB (18ms)	275
Quantum 85 MB 15ms	275
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Quantum 120 MB 15ms	340
Maxtor 7120A 130 MB 15ms	340
Conner 210 MB (16ms)	545
Quantum 240 MB	545
Conner 3504 510 MB 12ms	1295

Modem

2400 Baud (Int)	$65
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Fax Modem (9600 FAX, 2400 modem)	95

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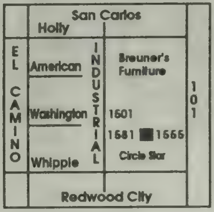

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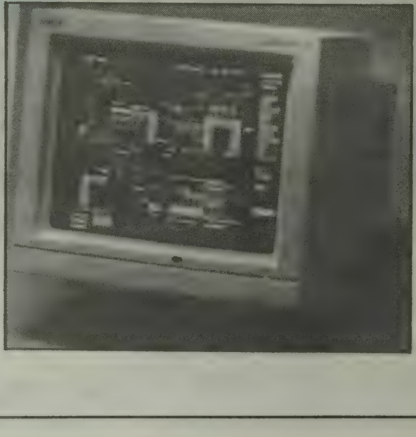

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TRAINING

MACINTOSH SYSTEM 7.0 TRAINING VIDEO

The Pollard Group has introduced an in-depth, four-hour video training series for the Macintosh System 7.0 operating system. The new training series provides comprehensive, high-quality instruction covering both the basic and advanced features of System 7.0. This training package consists of four one-hour interactive courses designed for use with a VCR and a Macintosh. Each course consists of a videotape, a fifty-page desk reference guide, and a practice disk containing examples. (Each course is $295, the full four-course series is $950) The Pollard Group., 3324 Deer Hollow Dr., Danville, CA 94506. (510)736-0400.

HOW TO USE
PageMaker
AUDIO CASSETTES, DISK & QUICK REFERENCE GUIDE
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HOW TO USE PAGEMAKER 4 FOR THE PC

How to Use PageMaker 4 is an interactive course on seven audiocassettes designed for the beginning user of the DOS version of this desktop publishing program. It takes the user hands-on through procedures for working with text and graphics, using special effects such as reverse type and lines, drop shadows, and large initial caps. The course covers using the Story Editor, style sheets, hyphenation, kerning, and much more. The user works with all of the essential procedures of planning and setting up several kinds of publications, including a flyer, a newsletter, a brochure, a flow chart, and a price list. Included in this package is a data disk with practice files and a fully indexed Quick Reference Guide that summarizes key concepts. ($195) FlipTrack OneOnOne Computer Training, 2055 Army Trail Rd., Suite 100, Addison, IL 60101. 1-800-424-8668.

BUILDING AN INTERACTIVE SOLUTION

Without the proper knowledge and understanding, the development or selection of an interactive videodisk program can be costly and time consuming. To help trainers better utilize an interactive videodisk (IVD), the Interactive Training Institute offers Building an Interactive Solution. This one-hour videotape course presents a how-to approach toward understanding the development of IVD programs from design to implementation. The program includes an overview of the technology, the seven stages of program development, and schedule and budget considerations. Included with the videotape is an eighty-page *Companion Guide* that leads the viewer through the material and provides hard copies of development forms and a glossary of over one hundred items. ($195) Interactive Training Institute, 1189 E. 14 Mile Rd., Birmingham, MI 48009-2025. (313)646-2054.

BUILDING AN INTERACTIVE SOLUTION
COMPANION GUIDE

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HARDWARE

MICC 9600 BPS POCKET FAX MODEM

The new 6 oz., 5" x 2.75" Pocket Fax Modem sends and receives both fax and data at 9600bps, and is available for both the Macintosh and PC. It plugs into the serial port, operates on a standard 9V battery, and has an AC adapter. It comes with either Bitfax or Quicklink II SR software. The Pocket Fax Modem implements V.22bis data compression and V.42 error correction. The PC version can use any fax software that utilizes the "+F" extensions to the AT command set. ($499) Micro Integrated Communications Corp., 3255-3

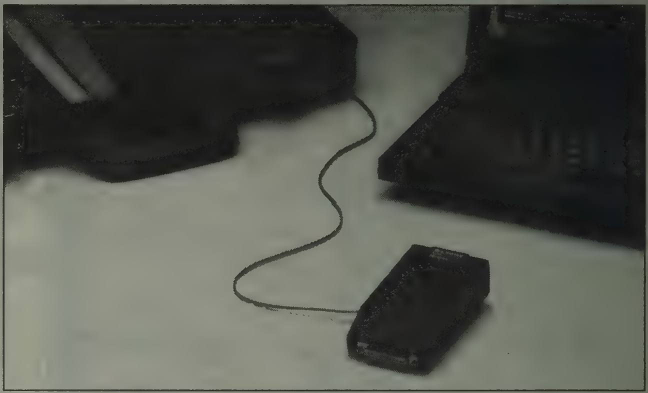
GlobalFax
Fax/Data Modem
MICC

YAMAHA MULTIMEDIA COMMUNICATIONS

The FAX VOdem is an LSI device that gives multimedia communications designers access to fax/data/ADPCM voice and caller ID on a single chip, making it possible to send and receive graphics, data, and voice messages on a single phone line, and to incorporate caller ID if desired. For example, in a PC, the FAX VOdem will allow you to send data for a spreadsheet and voice instructions with supporting graphic or hardcopy evidence. The recipient can view the spreadsheet on a PC monitor and listen to the instructions through the PC's speaker while looking at the associated hardcopy image. Yamaha Systems Technology Division, Yamaha Corp. of America, 981 Ridder Park Dr., San Jose, CA 95131. 1-800-543-7457.

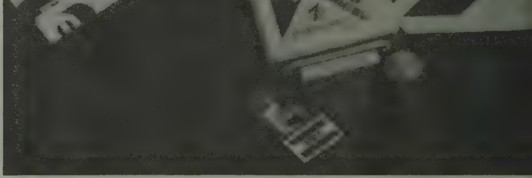
MOTOROLA DDS/V.32

The DDS/V.32 is a full-featured, integral, 9600bps modem that provides dial-backup when a digital dataphone service (DDS) line failure occurs. It monitors the state of the DDS connection and automatically switches to the V.32 modem for a dial-up analog data path if needed. While the unit is using the analog path, it continues to monitor the DDS line, automatically returning the data path to digital service when the DDS link is restored. The DDS/V.32 can operate as a DSU/CSU only, a DSU/CSU with V.32 dial-backup, or as an independent DSU/CSU and V.32 modem. It can also function as a limited distance modem at data rates up to 56Kbps over private, four-wire, unloaded, twisted-pair cable, across a maximum distance of 54,000 feet. ($1895) US Motorola, Inc., 5000 Bradford Dr., Huntsville, AL 35805-1993. (205)430-8000.



SOLECTEK POCKET FAX MODEM

The new Pocket Fax Modem from Solectek Corp. eliminates confusing keystrokes by allowing users to send a fax from within any application via a pop-up fax menu. An embedded Epson printer emulation sends faxes with the same fonts and format that appear on your computer's monitor. The Pocket Fax Modem features a 9600/4800bps send/receive fax and a 2400bps data modem. It can be powered by an internal battery or external power adapter, and includes a battery sleep mode to conserve battery life when the unit is not in operation. A power adapter, telephone cable, and 2' DB9 cable are included. Solectek provides a two-year warranty. (Model FM-D, compatible with all DOS applications, is $299.95; Model FM-W, compatible with all Windows applications, is $349.95) Solectek Corp., 6370 Nancy Ridge Dr., Suite 109, San Diego, CA 92121-2312.



COM 1 VOYAGER POCKET MODEM

The 2400bps Voyager MV214 pocket modem, featuring data compression and error correction, is slightly larger than a pack of playing cards and weighs only 6 oz. It supports the standard AT command set, allowing it to work with any PC communication software, and is both CCITT and Bell compatible to enable the traveler to communicate from any location worldwide. The Voyager has an additional feature, V23, for connecting to the European Minitel system. The acoustic interface adjusts to fit any phone in the world—whether you are in an airport, a hotel, or remote location with a mobile phone. ($390) Data Communications Corp., 5120 Avenida Encinas, Suite C, Carlsbad, CA 92008. (619)431-5606.

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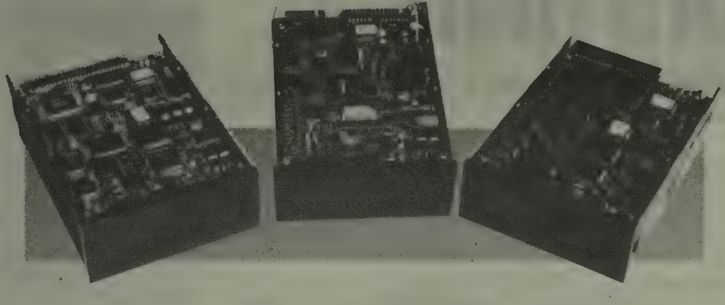

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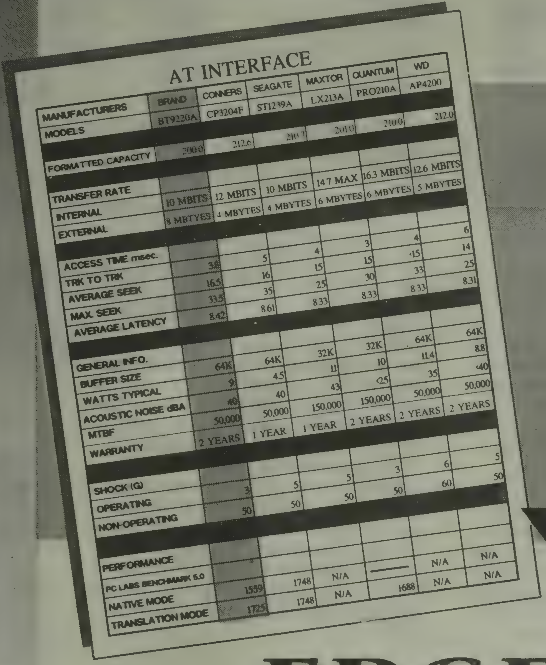

AT INTERFACE

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MODELS	BT9220A	CP3204F	ST1239A	LX213A	PRO210A	AP4200
FORMATTED CAPACITY	200.0	212.6	210.7	201.0	210.0	212.0
TRANSFER RATE						
INTERNAL	10 MBITS	12 MBITS	10 MBITS	14.7 MAX	16.3 MBITS	12.6 MBITS
EXTERNAL	8 MBTYES	4 MBYTES	4 MBYTES	6 MBYTES	6 MBYTES	5 MBYTES
ACCESS TIME msec.						
TRK TO TRK	3.8	5	4	3	4	6
AVERAGE SEEK	16.5	16	15	15	<15	14
MAX. SEEK	33.5	35	25	30	33	25
AVERAGE LATENCY	8.42	8.61	8.33	8.33	8.33	8.31
GENERAL INFO.						
BUFFER SIZE	64K	64K	32K	32K	64K	64K
WATTS TYPICAL	9	4.5	11	10	11.4	8.8
ACOUSTIC NOISE dBA	40	40	43	<25	35	<40
MTBF	50,000	50,000	150,000	150,000	50,000	50,000
WARRANTY	2 YEARS	1 YEAR	1 YEAR	2 YEARS	2 YEARS	2 YEARS
SHOCK (G)						
OPERATING	3	5	5	3	6	5
NON-OPERATING	50	50	50	50	60	50
PERFORMANCE						
PC LABS BENCHMARK 5.0						
NATIVE MODE	1559	1748	N/A	——	N/A	N/A
TRANSLATION MODE	1725	1748	N/A	1688	N/A	N/A

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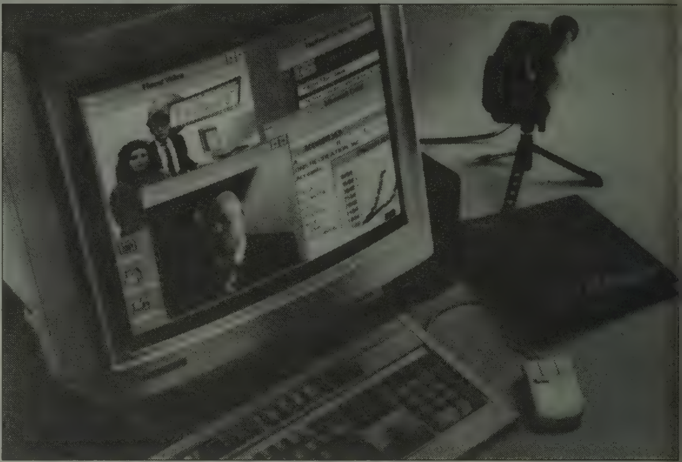
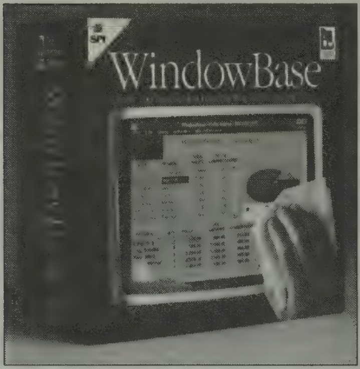
The Fluency family of digital video and audio products for desktop systems couples two 16-bit AT-compatible boards with FluentStreams software. The VSA-1000 board set provides real-time capture, compression, decompression, and display of digital video and audio information. The boards allow capture of analog video and audio from a wide variety of video sources including camera, laserdiscs, and VCRs, and support NTSC and PAL input formats. Working closely with the board set, FluentStreams system software efficiently manages video and audio processing while giving developers tools for easy integration of video and audio into Windows applications. Fluency products support scalable video and are compatible with Microsoft Windows multimedia extensions and international image compression standards. (FluentStreams software is priced at $495. The VSA-1000 board set is priced at $3995) Fluent Machines, Inc., 1881 Worcester Rd., Farmingham, MA 01701. (508)626-2144.



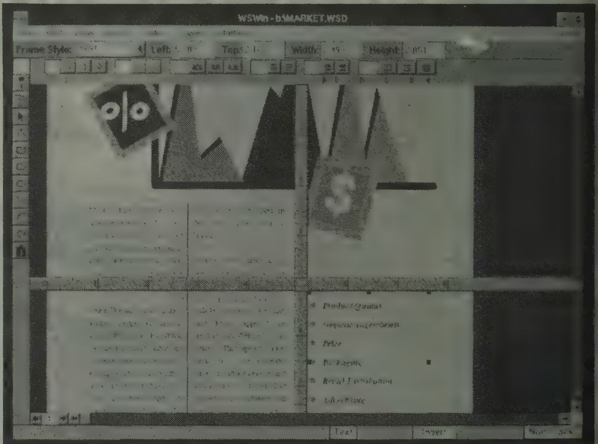


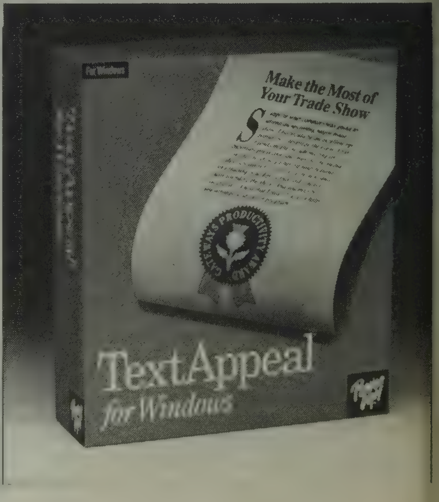
WINDOWBASE 1.0

WindowBase 1.0 is a new relational database management system for Microsoft Windows that supports SQL. Designed specifically for Windows 3.0, it offers all the tools individuals and corporations need to develop their office applications. WindowBase features an easy-to-use graphical user interface, customizable menus, Dynamic Data Exchange (DDE), full support of SQL, and a C Developers Kit. These powerful features provide a complete Windows database management system for everyone, from the novice to the expert user. Gateways to dBASE, B-Trieve, and Open Access data files are available. Support for Paradox files is planned. ($495. The optional C Developers Kit is $695) Software Products International, Inc., 9920 Pacific Heights Blvd., San Diego, CA 92121. (619)450-1526.

WORDSTAR FOR WINDOWS

WordStar for Windows v1.0 delivers high-end text capabilities that include page layout, graphics, table generation, and advanced connectivity tools such as client/server DDE, DOS file referencing, and LAN support. The high priority placed on interface development ensures that the average user can work with the program's broad range of text editing capabilities as well as its advanced features. To make the transition to Windows easier for current WordStar users, WordStar for Windows gives users the option to use WordStar 6.0 or WordStar 2000 keystroke accelerators. In addition, it recognizes and auto-converts both file formats. ($495. Registered users of WordStar's DOS or Windows products, as well as registered users of any other DOS or Windows-based word processor, may purchase WordStar for Windows for $129) WordStar International, Inc., 201 Alameda Del Prado, Novato, CA 94949. 1-800-227-5609.

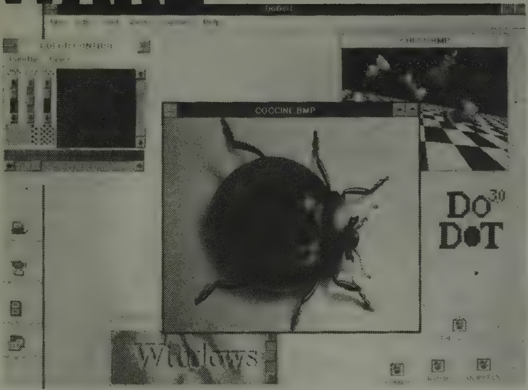




TEXTAPPEAL FOR WINDOWS

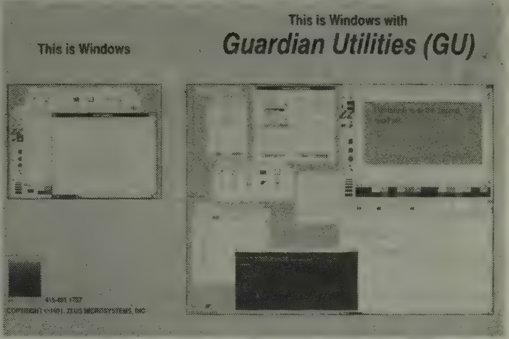
The general user can now create more visually interesting documents on a PC by adding custom headlines, logos, bursts, and other text effects. TextAppeal is a Windows type styler that combines type manipulation, drawing tools, and the ability to import and export graphic images in one package. A collection of custom tools gives the user forty predefined ready-to-use designs. These tools provide all the text, color, and other elements needed to put together a complete logo, burst, or headline. Each package includes Adobe Type Manager and thirteen font outlines. ($129.95) Power Up Software Corp., 2929 Campus Dr., San Mateo, CA 94403. (415)345-5900.

WINDOWS SOFTWARE



DODOT 3.0 FOR WINDOWS

With the addition of IBM StoryBoard PIC format and IMA VOX Turbo Fax format, DoDOT 3.0 supports over twenty file formats, including all of the widely used industry standards. DoDOT 3.0, a screen capture and file conversion program for the Windows 3.0 environment, also provides extensive support for image printing, viewing, editing, and screen capture. The screen capture feature allows users to capture a screen, window, dialog box, pull-down menu, or an icon at any time during a Windows session. ($149) Halcyon Software, Inc., 10297 Cold Harbor Ave., Cupertino, CA 95014. (408)984-1464.



ZEUS MICROSYSTEMS GUARDIAN UTILITIES FOR WINDOWS

Guardian Utilities (GU) for Windows 3.0 consists of several screen utilities to enhance the Windows environment, including Desktop Extender, an animated screen saver, and electronic notes. The Desktop Extender increases the working area to four times the size of your existing monitor. You view one-fourth of the virtual desktop at a time. Electronic Notes lets you leave yourself a time-stamped note from within any Windows application. A hot-key displays a note window to type into. GU runs as an application under Windows and works with other desktop managers. (Promotional price of $19.95 through February, 1992) Zeus MicroSystems, Inc., PO Box 6143, San Rafael, CA 94903-0143. (415)491-1737.

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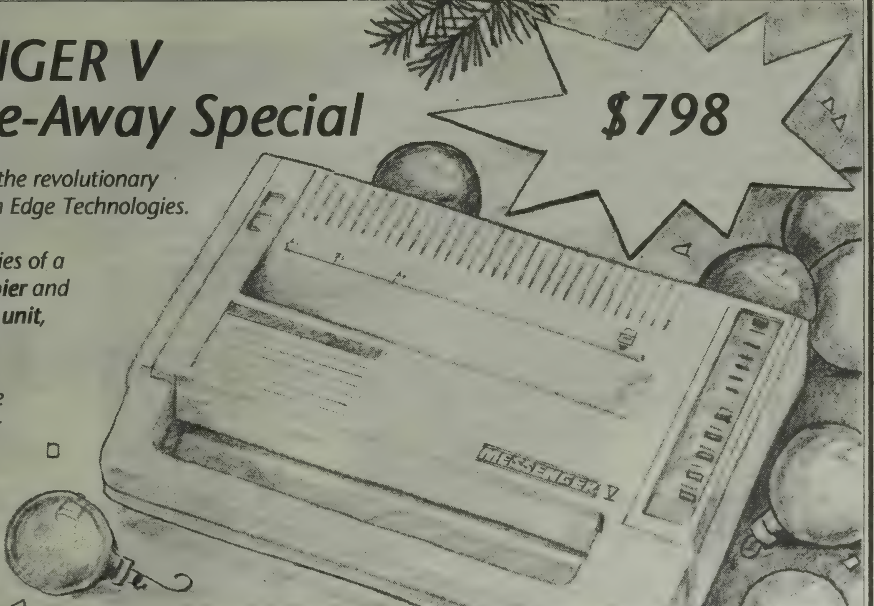

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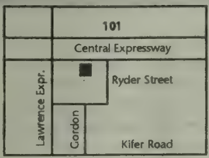

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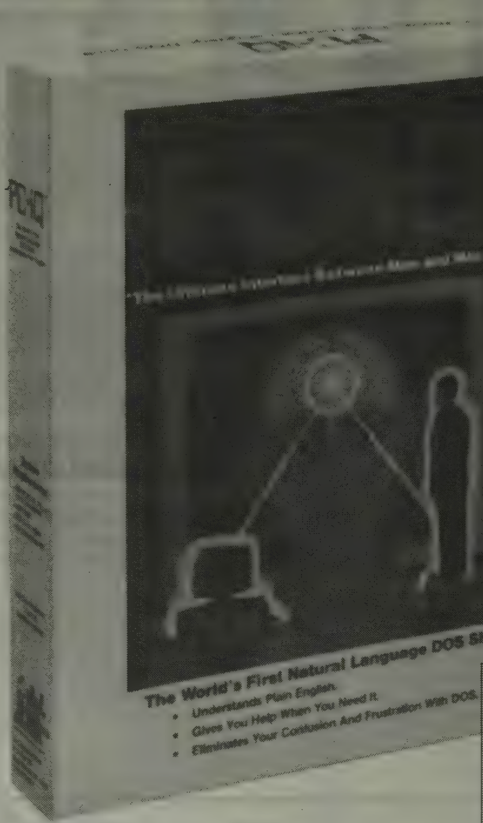
PC SOFTWARE


PC-IQ
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A.I. SOLUTIONS PC-IQ

PC-IQ is a DOS interface that understands English commands. It uses the same kind of artificial intelligence found in many text-based computer games, which makes interaction with the computer less intimidating, and more human-like. PC-IQ can operate in two modes: a Natural Language Mode and a Point And Shoot Mode. In the natural language mode, the computer prompts the user in conventional terms, such as "How can I help you now?" The user then types in a request, like "run WordPerfect" or "make a file." The point and shoot mode provides a menu of twenty-two commonly used DOS functions, such as formatting, copying, renaming, printing, and creating files. PC-IQ is designed to run on all IBM PC or higher personal computers. ($99.95) A.I. Solutions, Inc., 58 Creekview Dr., PO Box, 128 Seneca, NY 14224. 1-800-677-6670.

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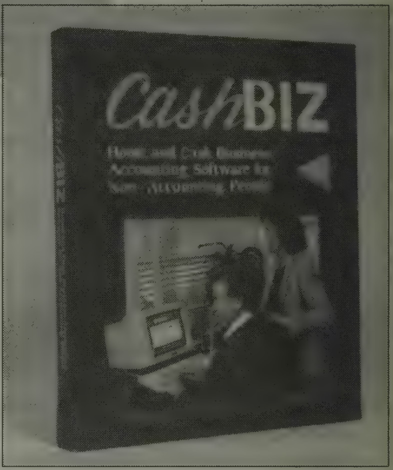
JANDEL SCIENTIFIC TABLECURVE 3.0

TableCurve 3.0 is designed to help scientific and engineering researchers find the best equation to fit their experimental data. Unique among curve fitting programs, it automatically fits and ranks 3318 built-in linear and non-linear equations by order of best fit, and allows the user to quickly review graphs and statistical summaries of any selected equation. Output options include Lotus 1-2-3, SigmaPlot, and ASCII. For the scientific programmer, TableCurve 3.0 automatically generates complete programming code for any of the built-in equations in several programming languages. ($495) Jandel Scientific, Inc., 65 Koch Rd., Corte Madera, CA 94925. 1-



M-USA BUSINESS SYSTEMS CASHBIZ

Until now Quicken has reigned supreme as the home business software. CashBIZ is a new home and business accounting software package designed especially for the non-accountant. It is ideal for keeping track of your personal finances, and has all the features needed to manage a small cash-based business. It combines ease-of-use with sophisticated features like full dialog boxes, online browsing, mouse or keyboard control, and prints continuous or laser forms while supporting up to three printers simultaneously. CashBIZ also contains the added convenience of an address book that keeps customers, vendors, friends, or family in an unlimited number of groups or classifications; automatically dials any telephone number listed; and prints rotary index cards, mailing labels, or other specialized lists. ($49.95) M–USA Business Systems, Inc., 15806 Midway Rd., Dallas, TX 75244. 1-800-345-4243.

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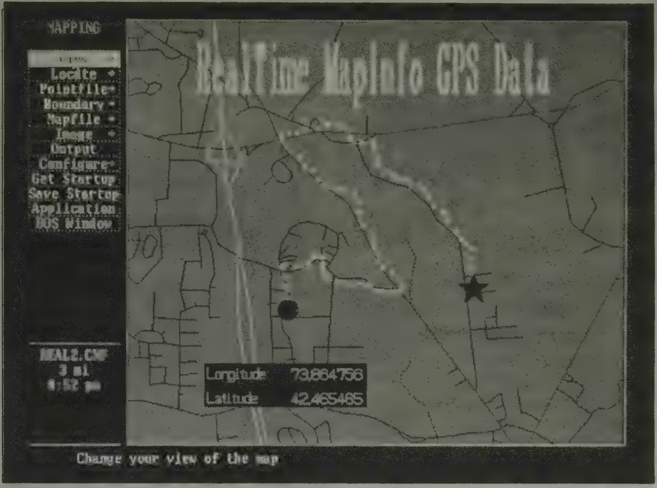
One-Write Plus Accounting Works unifies through a single menu a family of accounting and financial solutions for businesses and home offices. Integrated together, Accounting Works consists of One-Write Plus Accounting, which includes General Ledger with Checks and Receipts, Accounts Receivable with Invoicing, and Accounts Payable; One-Write Plus Payroll; and Get Paid Plus, a customer and vendor collection and correspondence tool. Also included are @Accounting, a seamless link to popular spreadsheet packages; DataSave, a utility that automatically backs up files; and PC Menu, an easy-to-use menu organizer. ($299) Great American Software, Inc., 615 Amherst St., Nashua, NH 03063. (603)889-5400.



REALTIME MAPINFO

Global positioning systems (GPS) technology has been used by the US Department of Defense to monitor troop movements. This technology is now available for commercial markets with RealTime MapInfo, a desktop mapping package. A serial communication link, comprised of ordinary componenets like modem, cellular phone, and a serial port, lets PC users monitor and track moving objects on detailed, street-level computerized maps at a central location. It can also follow changes in status at remote sites, such as traffic signals, telecommunication lines, utility cables, and pipelines, as well as commercial, public, and government facilities. (RealTime MapInfo with serial communications is priced at $2495) MapInfo Corp., 200 Broadway, Troy, NY 12180. 1-800-FAST-MAP.

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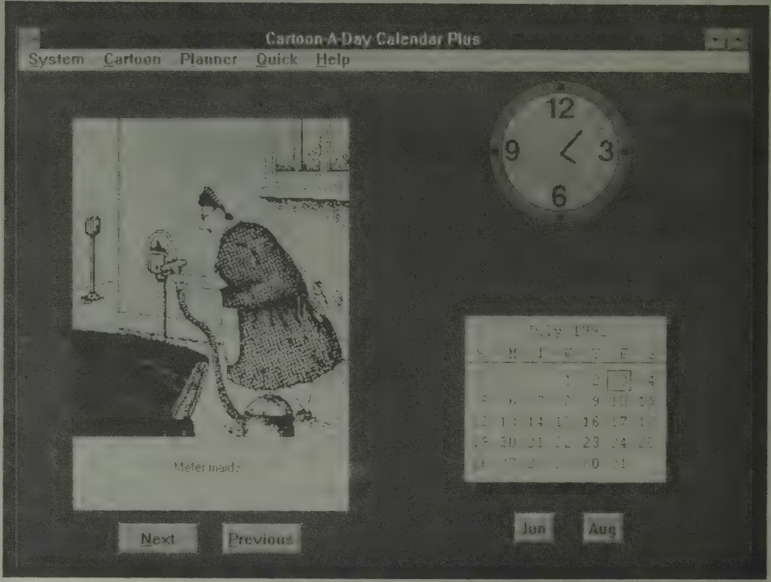
SOFTWARE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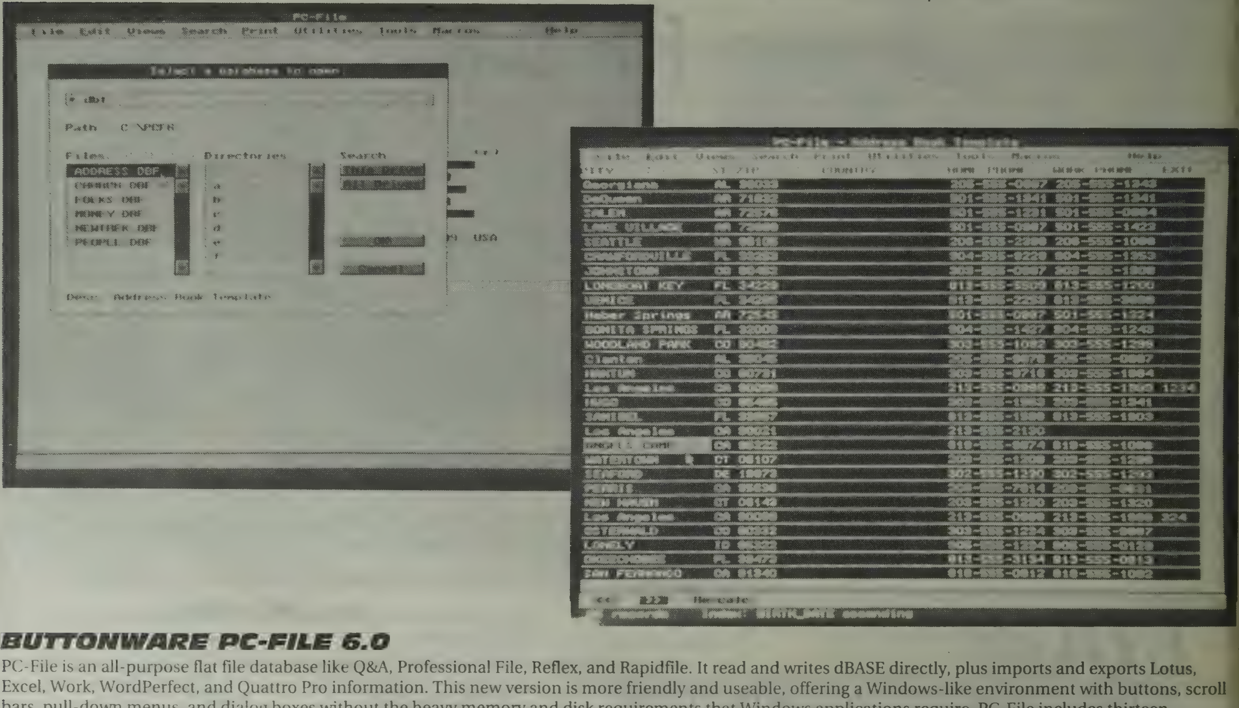
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Search
Print
Utilities
Tools
Macros
Help
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PC-File is an all-purpose flat file database like Q&A, Professional File, Reflex, and Rapidfile. It read and writes dBASE directly, plus imports and exports Lotus, Excel, Work, WordPerfect, and Quattro Pro information. This new version is more friendly and useable, offering a Windows-like environment with buttons, scroll bars, pull-down menus, and dialog boxes without the heavy memory and disk requirements that Windows applications require. PC-File includes thirteen custom, ready-to-run applications, such as Address Book, Pre-Pay Invoicing, Accounts Payable, and Personnel Records. The LAN version of PC-File is compatible with Novell, 3Com, IBM PC-Network, and LANtastic operating systems. And each LAN pack licenses up to five workstations. ($149.95. LAN version costs $449.95) ButtonWare, Inc., PO Box 96058, Bellevue; WA 98009-4469. (206)454-0479. MCI Mail: Buttonware.

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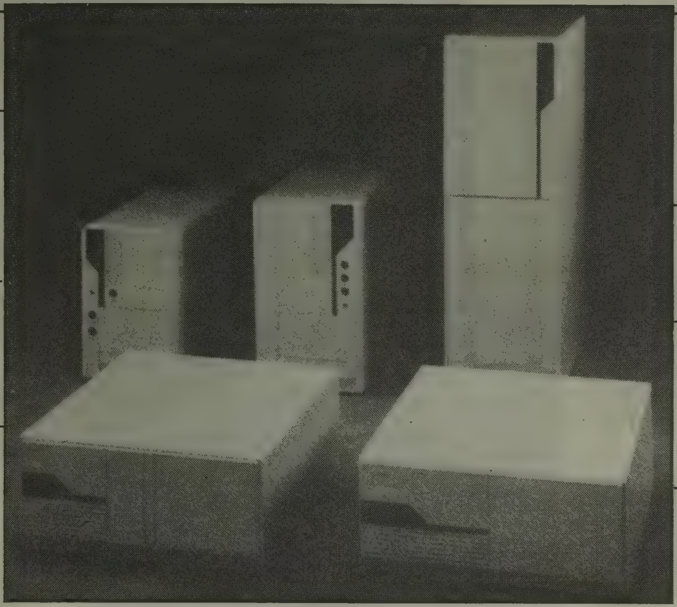

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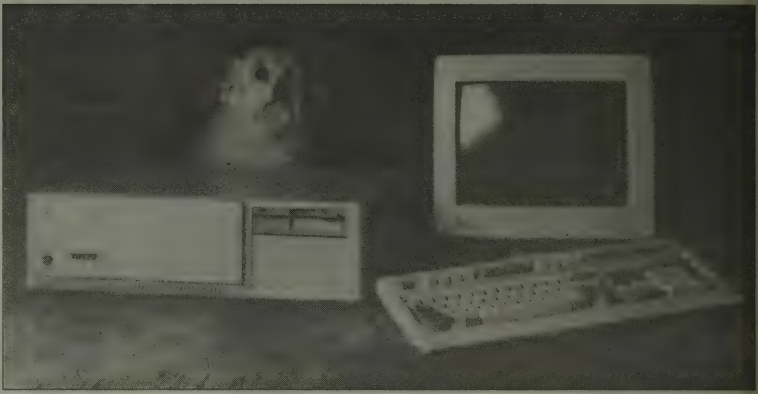


TOPLINE 386/33 CACHE PC

A 386/33MHz with 256K cache and burst mode memory access is the latest addition to Topline Technologies' line of personal computers. As a personal workstation or fileserver, the Topline 386/33 cache is certified for Novell NetWare and proven compatible with UNIX, XENIX, OS/2, and Concurrent DOS-386. This system features the ability to remap memory between 640K and 1024K to the top of the main memory and three non-cachable programmable memory regions. The tower chassis accommodates four half-height drives, one internal full-height drive, and an exhaust fan. Also included is 4MB of RAM, a 200MB hard disk drive, one 5.25" 1.2MB and 3.5" 1.44MB floppy drive. ($4295) Topline Technologies, Inc., 310 E. Orangethorpe Ave., Bldg. J, Placentia, CA 92670. (714)524-6900.

HYUNDAI SUPER 486/33 ISA

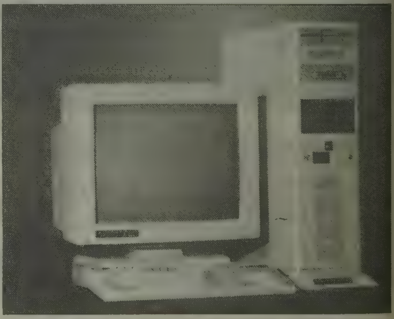
With 256K cache capacity, eight expansion slots, and six storage bays, the Super 486/33 ISA provides the added external memory and excellent expansion capability required of network servers in demanding client/server environments. It offers an excellent choice as a database server or multiuser UNIX host for small- to medium-size installations. This 33MHz 486 system includes 4MB of RAM, expandable to 16MB, six half-height storage bays, eight expansion slots, two serial ports, and one parallel port. In addition, the system is cooled by two fans. ($6595 with one 5.25" 1.2MB floppy drive and 100MB hard drive) Hyundai Electronics America, Inc., 166 Baypointe Pkwy., San Jose, CA 95134. (408)473-9200.

PARALLAN SERVER 290 SERIES II

The Parallan Server 290 Series II models feature an orthogonal implementation of a RAID-5 parallel disk array (PDA) system, offering a significant leap forward in fault tolerance. With Parallan's new array design, data is protected and remains accessible even if single or multiple failures occur on a host adapter, SCSI bus, or multiple drives. This OS/2 platform supports up to 128MB of main memory, eight times the current limit for most OS/2 environments. Along with providing 50MHz capability, the Intel 80486 module includes a 256K on-board cache and a 64-bit interface between the module and the host system. All models feature an open system architecture based on OS/2, Micro Channel, and SCSI standards, supporting LAN Manager, LAN Server, and Novell NetWare networks. (Prices for the entry-level model begin at $25,000) Parallan Computer, Inc., 201 Ravendale Dr., Mountain View, CA 94043. (415)960-0288.

FOX POWERPLUS

PowerPlus is a 486-based tower configuration using a 32-bit EISA bus. The basic model includes 32MB of zero-wait state system memory, 1.2GB hard drive, 32-bit I/O disk controller with 4MB of cache memory, an internal 2GB SCSI tape drive, an internal 9600 baud send fax and 2400 baud modem, and a color Tri-Sync 14" display. PowerPlus is preloaded with DOS 5.0 and Windows 3.0, with UNIX, XENIX, or OS/2 optional. Modular expansion allows up to four 386 or 486 CPUs for parallel processing and multitasking operations. System memory is expandable to 265 MB with 16MB of cache controller memory. Hard disk storage is expandable up to 14GB. ($12,995) Fox Computer, Inc., PO Box 1846, Big Bear Lake, CA 92315. (714)866-5700.



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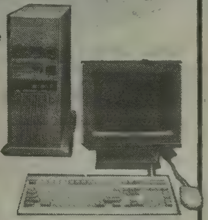
- ► Super VGA Card w/1 MB RAM
- ► 14" Super VGA Color Monitor (1024x768 .28)
- ► Dallas Clock Chip for Setup Configuration



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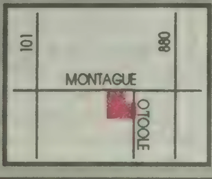

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INTRODUCTION TO LOTUS 1-2-3

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January 13-15	Mon-Wed	6:00-9:00 PM

INTRODUCTION TO WORDPERFECT

January 6-7	Mon-Tue	1:30-5:30
January 7-8	Tue-Wed	6:00-9:00 PM

INTRODUCTION TO WINDOWS

January 2-3	Thurs-Fri	1:30-5:30
January 20-21	Mon-Tue	6:00-9:00 PM

INTRODUCTION TO MAC WORD

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INTRODUCTION TO MAC EXCEL

January 6-7	Mon-Tue	1:30-5:30

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The Mikey Awards

Best Computer Games Of 1991

By Mike Markowitz

1991 WAS AN EXCEPTIONALLY GOOD YEAR FOR COMPUTER GAMES, marked by tremendous growth in the market for IBM PC games using 256-color VGA graphics and digitized sound. PC game programmers are still fettered by the limitations of MS-DOS, but as more and more of the installed base comes to consist of fast 32-bit CPUs, there is at least some hope that PC game software will eventually catch up to the level of graphic/animation quality that Amiga owners have enjoyed for years. Lower-cost color Macs like the LC have opened up a big new potential game market, although Apple's corporate game-phobia may still manage to stifle it.

One of the most noticeable trends, on all platforms, was the inexorable growth in the size of programs. Until quite recently, no developer would dare to publish a game that required more than two floppy disks. It is now no longer unusual for a game to take up 3MB of hard disk space. A wider use by publishers of "self-extracting archives" (compressed files that contain their own automatic unpacking routines) would help reduce the diskette duplication, packaging, and distribution costs that seem to be driving the retail prices of games higher and higher. At some point, we are going to have to make the transition to laser-optical media to accommodate all the graphics, sound, and code that realistic, engaging computer entertainment demands. But if people won't buy (or can't afford) the drives, then nobody will be able to make a profit selling the disks.

Until quite recently, no developer would dare to publish a game that required more than two floppy disks. It is now no longer unusual for a game to take up 3MB of hard disk space.

The commercial success of cartridge-based, Japanese-made, 16-bit video game machines like the Super Nintendo Entertainment System and the Sega Genesis rather paradoxically helps to expand the market for desktop computer game software. Players come to expect the same high quality of animation and sound, and publishers are able to promote the same title (and perhaps even use some of the same code) on multiple platforms.

The Mikey Awards are a highly personal and subjective selection of IBM PC and Macintosh titles of

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CDU 6211 without controller	575

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Microsoft Multimedia Bookshelf Windows	126
US Atlas / OTHERS	43/visit

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PACIFIC DATA (for HP) see top of next page

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For network products	see network section

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1304 14", 1024x768, .25, Non-Int	569
1604S 17", 1024x768, .25, NI	1025
1936 20", 1280x1024, .25 NI	2495

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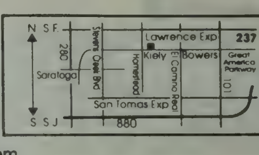

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18 MOUSE

APPOINT	
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GM-F302 mouse (3 button, PS/2 compatible)	42
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Catchword	79
Cordless Mouse	85
Dexxa serial mouse	27
First Mouse serial	37
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Mouseman Serial w/ Windows 3.0	119
Scanman 32 / 256	155/265
Scanman 32 w/ Catchword	195
Trackman Serial / Bus	77/82
Trackman portable mouse	99
MICROSOFT	
Ball Point Mouse	119
Mouse Serial 200PPI	69
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19 NETWORK

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Remote Power On/Off controller (Novell certified)	159
3COM	
3C503 8 bit	187
5 packs (5 boards 1 manual)	799
3C503-TP 8 bit / 5 packs	269/1160
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Lantastic AE-2 Ethernet starter kit,10Mbps, v4.0	469
Lantastic AE-3 Ethernet starter kit,10Mbps, v4.0	535
Lantastic 2Mbps starter kit / adapter	355/145
Lantastic Z (2 stations)	89
Lantastic AE-2 Ethernet adapter	215
Lantastic AE-3 Ethernet adapter	245
Lantastic AE-2/T 16bit 10Base-T adapter	210
Lantastic AE-1/T 8bit 10Base-T adapter	149
Lantastic AE-2/AE-3 64K RAM upgrade	45
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Lantastic /AI software (Individual node)	69
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Lantastic for Windows Network Utilities	175
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Peer-Hub 10Base-T concentrator	275
Peer-Hub AUI interface kit	275
Hub installation kit	145
Network Eye (Remote Control Access Program)	129
Sounding Board adapter kit	72
HAYES	
Ethermate 8 ethernet adapter 8 bit	99
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EtherExpress 16 / 16TP / EISA	135/149/559
LANSpool 3.0 for Netware 2.1x & 3.1x	call
NetPort for Ethernet / TP / Token Ring	469/479/825
NetSatisfaxtion	635
NOVELL	
NE1000 8 bit / NE2000 16 bit ethernet	145/175
NE1000 / NE2000 Boot PROM	32
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50 / 100 users	1935/2955
Netware 3.11 10 / 20 users	1375/1935
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BJ-10ex (Bubble jet)360 dpi,37K buf	319
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Envelope Tray for IIP,IIIP	79
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Toner KX-P451	39
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Drum KX-PDM1	145
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Toner KX-P450	35
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QMS-PS 410 4ppm, 2MB, 45 Fonts	1625
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Grammatik IV for DOS / Windows	57
hDC Windows Express	55
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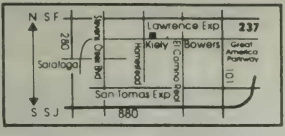

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VP/IX Unlimited	689	Motif User Env.	149	OSF/MOTIF	289
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widely recognized excellence. This is not intended to disparage the excellent work that is still being done for the Amiga, the Atari ST, the Commodore 64, and even the moribund Apple IIGS. I sold my IIGS to a teacher this year, and I miss it. If Commodore sends me an Amiga, I'll be happy to review the games.

What Makes A Good Game?

Criteria for evaluating computer games are no big mystery. Graphics and animation are very important. Sound, if used, should be well integrated into the design and not be annoying. The user interface should not frustrate or confuse the player. Documentation should be readable, helpful, and spelled correctly. I prefer games that are relaxing rather than frenetic, but I understand that this is definitely a minority viewpoint. The chemistry of computer gaming is based mainly on caffeine and testosterone.

The "Best of 1991" designation should not be interpreted too literally. Some of the winners may actually carry a 1990 publication date—perhaps we should call this "Great Stuff I've Seen During the Past Eleven Months." The following categories have been established. (If you think a different set of categories would better represent the full range of computer games, let me know.)

At some point, we are going to have to make the transition to laser-optical media to accommodate all the graphics, sound, and code that realistic, engaging computer entertainment demands. But if people won't buy (or can't afford) the drives, then nobody will be able to make a profit selling the disks.

The Awards

Best Traditional (Sword And Sorcery) Adventure Game

Loom *(Lucasfilm Games)*
One of the few computer games to use music intelligently as an integral part of the story line.

Runner-up: Bard's Tale III *(Electronic Arts)*

Bard's Tale III

continued

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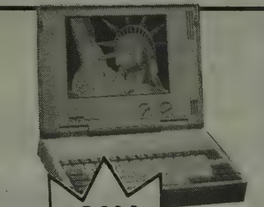

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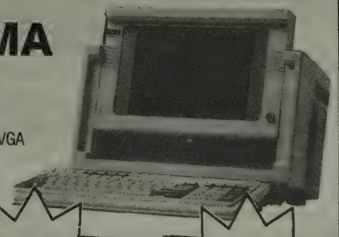

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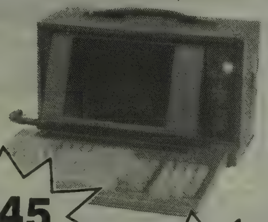

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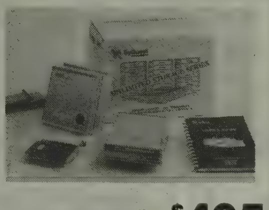

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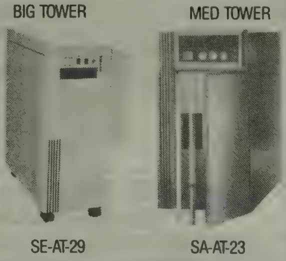

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- AT CASE w/200 WATT P.S.
- ENHANCED 101 KEYBOARD

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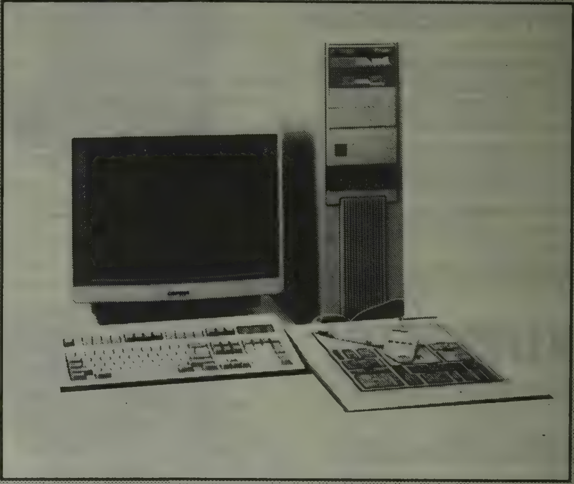

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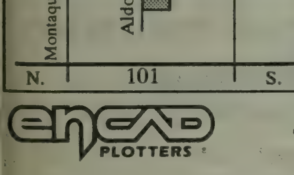

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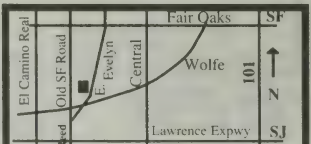

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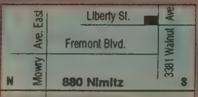

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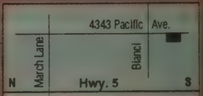

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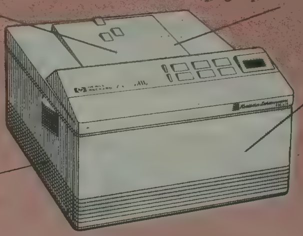

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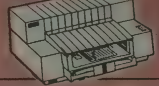

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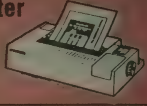

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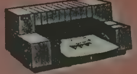

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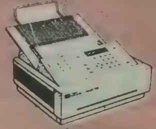

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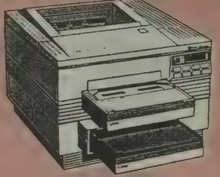

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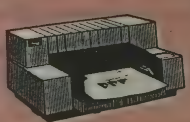

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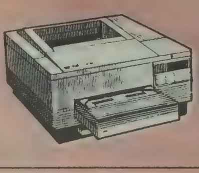

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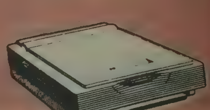

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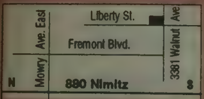

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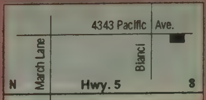

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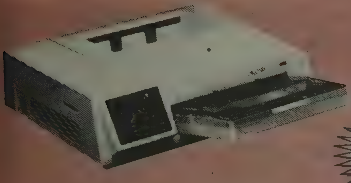

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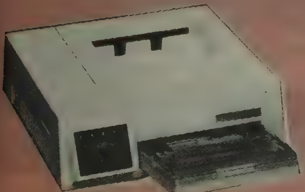

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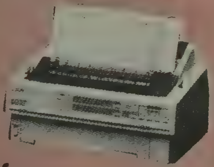

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Best Games Of '91 *continued*

Best Arcade/Action Game (Shoot-'Em-Up)

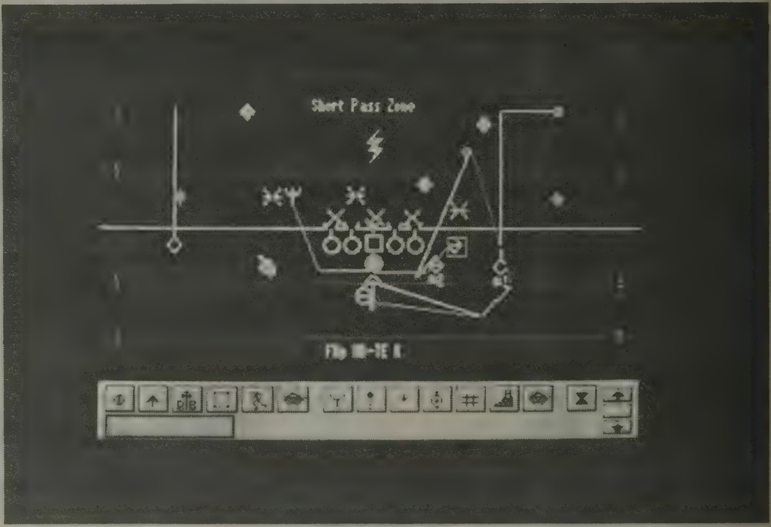
Wing Commander *(Origen Systems)*
IBM PC
A big hit with the hard core, this game is reportedly one of the biggest threats to the productivity of American corporate PC users.

Best Graphics And Animation

3 in Three *(Inline Design)*
Macintosh
A quest to rescue a lost number 3, stranded by a freak power surge inside your Mac. Can she find her way back to her home spreadsheet?

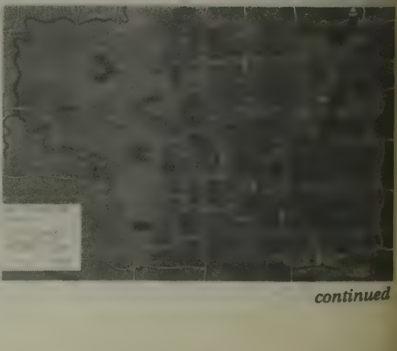
Best Sports Simulation

Playmaker Football *(Brøderbund)*
Mac and IBM
I hate most sports games, especially football, but the overall excellence of this package almost changed my mind. Lacking the high-visibility big-name endorsements of competing programs (Joe Montana Football, Mike Ditka Football, etc.), it faces an uphill fight on the store shelves.



Best Historical/Strategic Simulation

Patton Strikes Back *(Brøderbund, designed by Chris Crawford)*
IBM PC
The Battle of the Bulge (December 1944) was the last gasp of Nazi military power, and the first clear demonstration that the US Army had mastered the tactics of armored combat. Every wargamer knows the details of this battle by heart, and Chris Crawford's design will not disappoint them.



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486-33 MHz / 64K Cache	658
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486-33 MHz / 256K Cache	718

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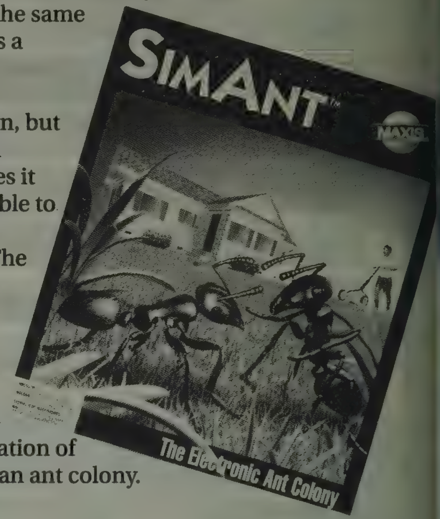
Best Educational Game

SimAnt *(Maxis, designed by Will Wright and Justin McCormick)*
Macintosh (IBM version coming in '92)



SimEarth, from the same design team, was a monumental achievement in simulation design, but its vast scale and complexity makes it almost inaccessible to a lot of game-oriented users. The intimate, micro-scale of SimAnt and its sense of humor make it a great game, as well as a profound exploration of the dynamics of an ant colony.

Best Non-Traditional Adventure Game

Altered Destiny *(Accolade)*
IBM PC (an Amiga version is reportedly not nearly as good)
You're a normal guy, sitting at home, when you are suddenly sucked through your TV screen into a bizarre alternative universe that only you can save. Awesome in scope, this game shows (at least in VGA) what talented computer graphic artists can do when you give them a lot of time and money.

Runner-up: Deja Vu II

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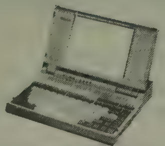

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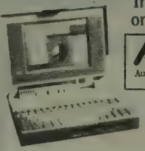

- 386SX/20 MHz
- VGA with 32 gray shades
- 2MB RAM
- 40/60MB Hard Drive

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- DOS 5.0
- 1 Serial/1 Parallel port

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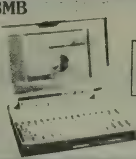

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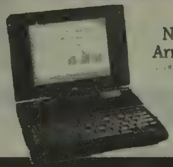

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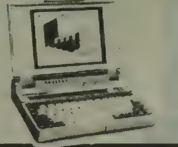

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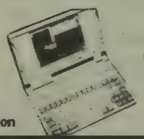

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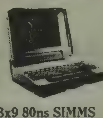

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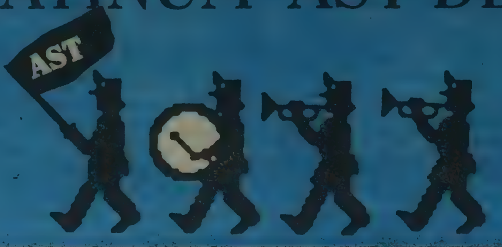

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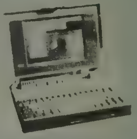

Not available until January 1992.

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- ➤ Chassis lock
- ➤ Software

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- 2MB RAM (Up to 16MB)

Bravo 386SX/20
- 386SX, 20MHz Processor
- 2MB RAM (Up to 16MB)

Bravo 286/16
- 286, 16MHz Processor
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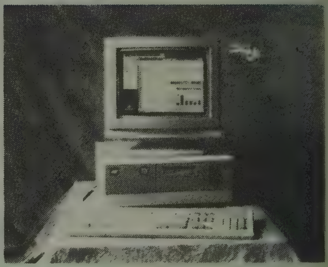

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PREMIUM II 486SX/20

Standard Configurations
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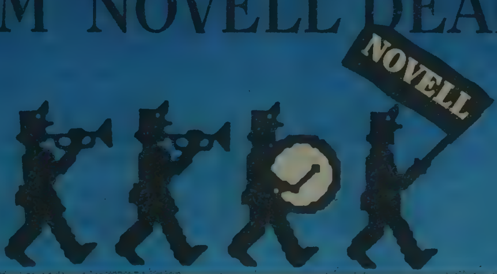

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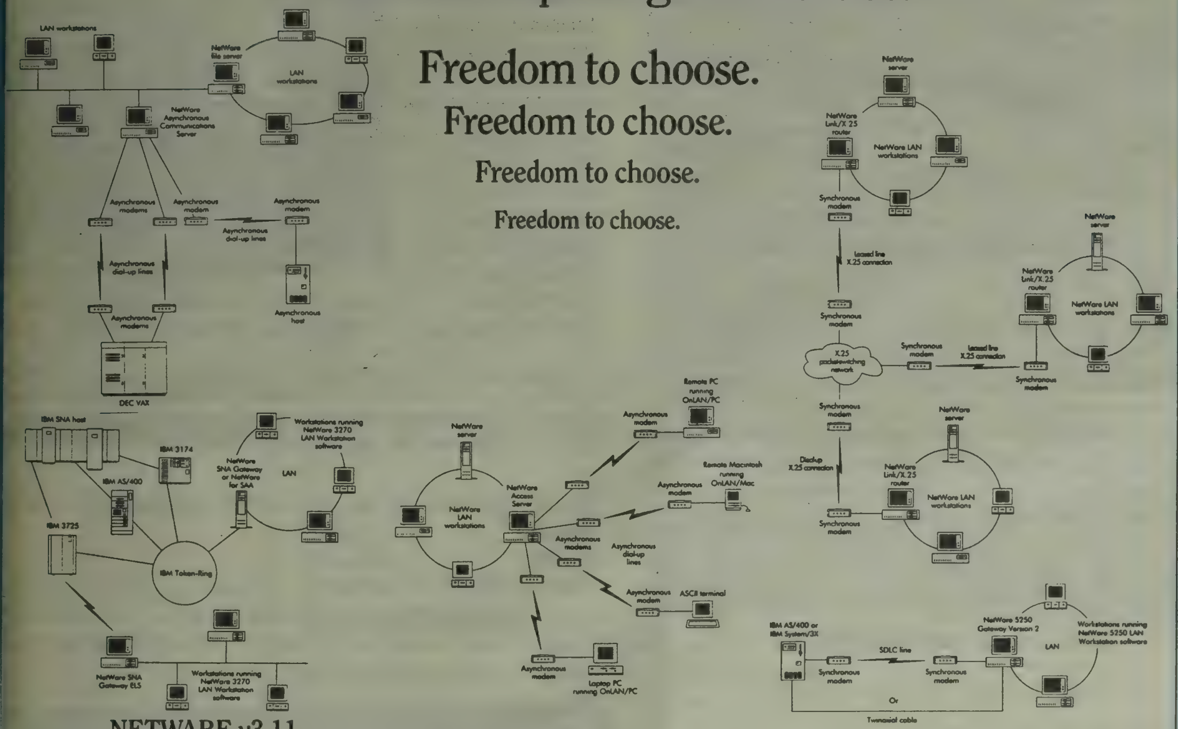
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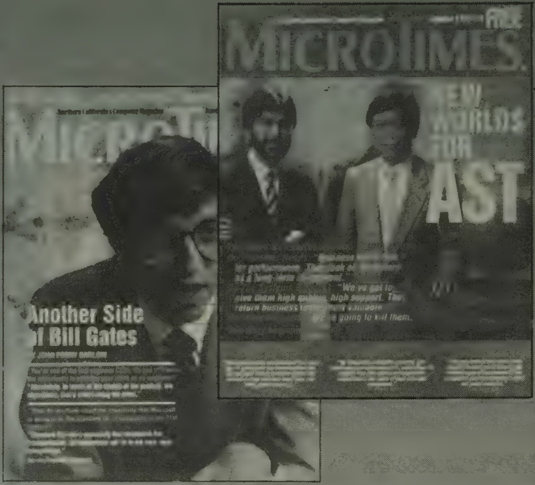

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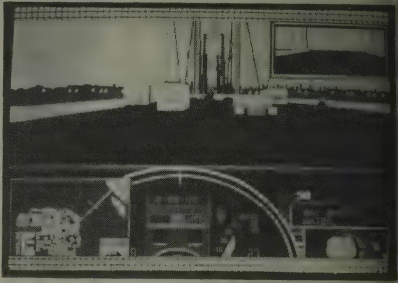
Best Vehicle Simulation (Flying Or Driving)

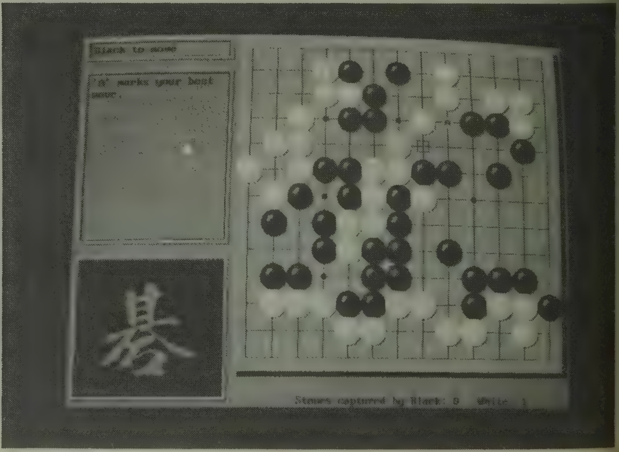
F-16 Falcon *(v3.0, Spectrum Holobyte)*
IBM PC
The much-maligned General Dynamics F-16 fighter apparently proved to be quite effective in last January's air war against Saddam. This new version defines the current state of the art in combat flight simulation for desktop PCs. Not as realistic as a $10 million wrap-around dome simulator driven by a cluster of VAXes, but definitely more affordable. Needs plenty of CPU horsepower and a fast VGA card, but these days what doesn't?



Runner-up: 'Vette *(Spectrum Holobyte)*
Macintosh color version
Careen through the streets of San Francisco in a new red Corvette. A computer has no floor pedals and a mouse is not a steering wheel, so no Mac driving simulation can ever be entirely satisfactory, but this is the best of its breed.

Best Computer Implementation Of A Classic Board Game

The Many Faces of Go *(Ishi Press, designed by David Fotland)*
IBM PC
Go is an Oriental board game of great beauty and subtlety. Chess simulations are based on decades of accumulated programming experience, but this stylish, flexible, and comprehensive package is something quite unique.



Black to move

'A' marks your best move.

Stones captured by Black: 9 White: 1

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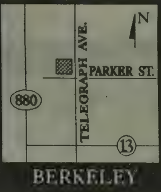

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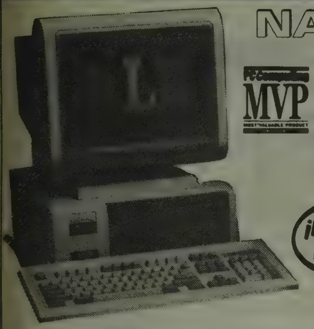

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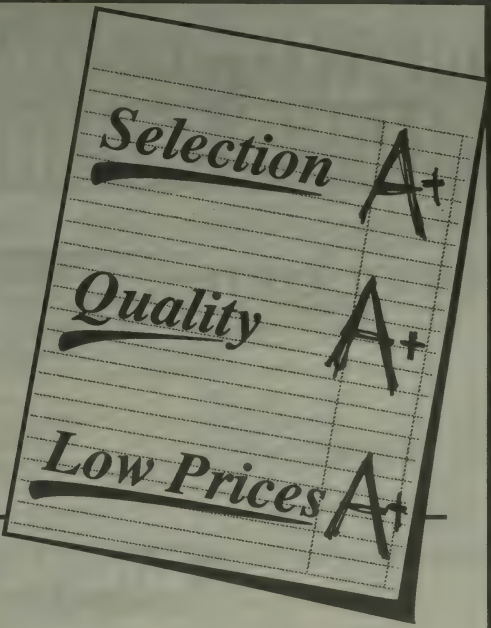

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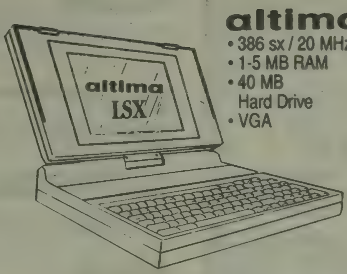

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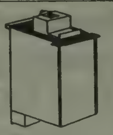

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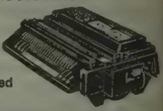

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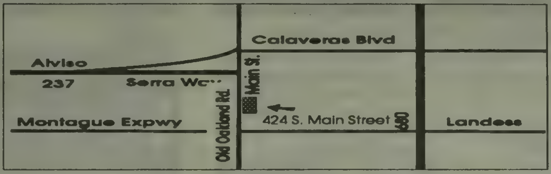

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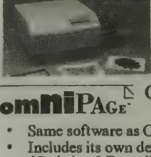

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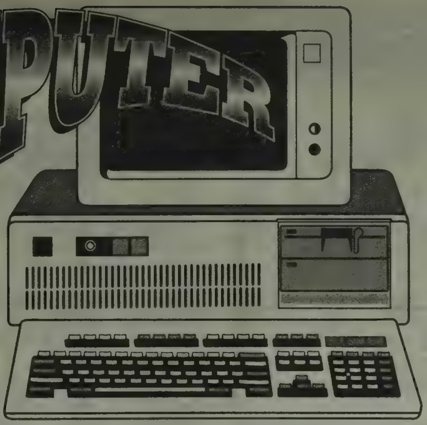

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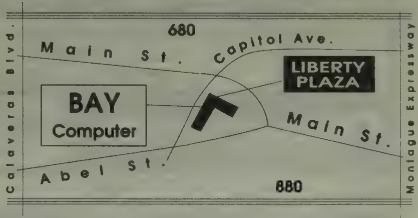

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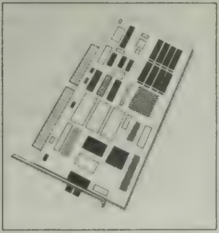

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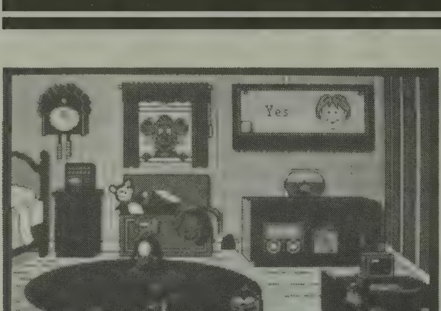
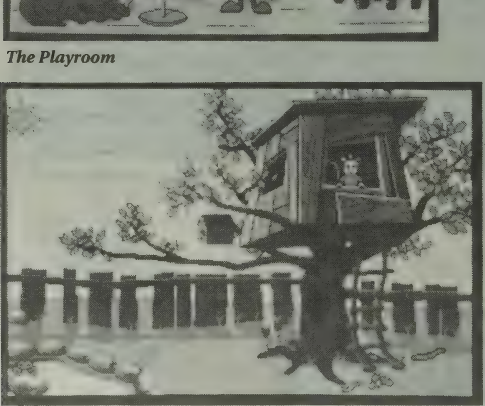
Best Games Of '91

continued from page 244



The Playroom



The Treehouse

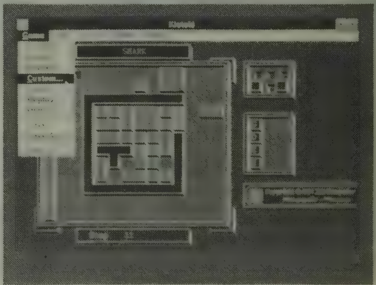
Best New Idea

The Playroom
The Treehouse *(Both designed for Brøderbund by Leslie Grimm and Lyn Kirkpatrick)*
Mac and PC

These two related open-ended exploration and activity packages for kids are more like software environments than narrowly focused, goal-directed "games." Particularly for the Treehouse, the scope of the design really calls for something like CD-ROM to accommodate a lot of stuff.

Runner-up: Klotski *(ZH Software)*
Windows 3.0

A simple, delightful game based on ancient Polish wooden block puzzles. You can even design your own.



Klotski

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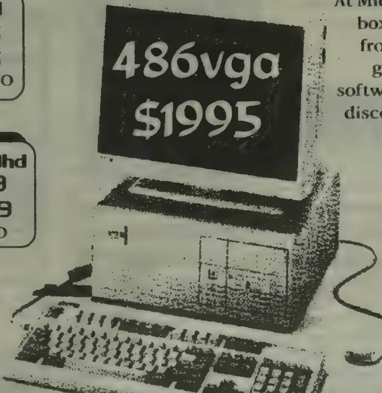

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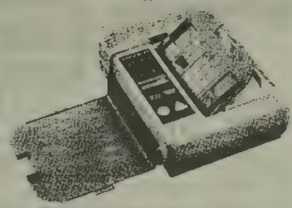

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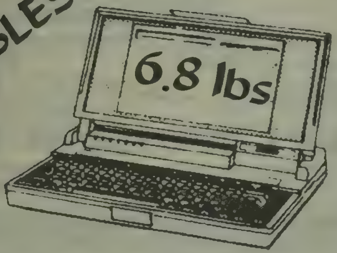

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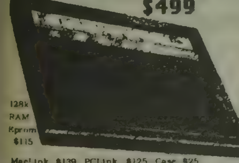

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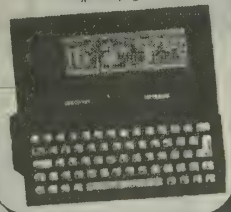

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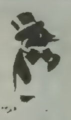

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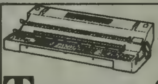

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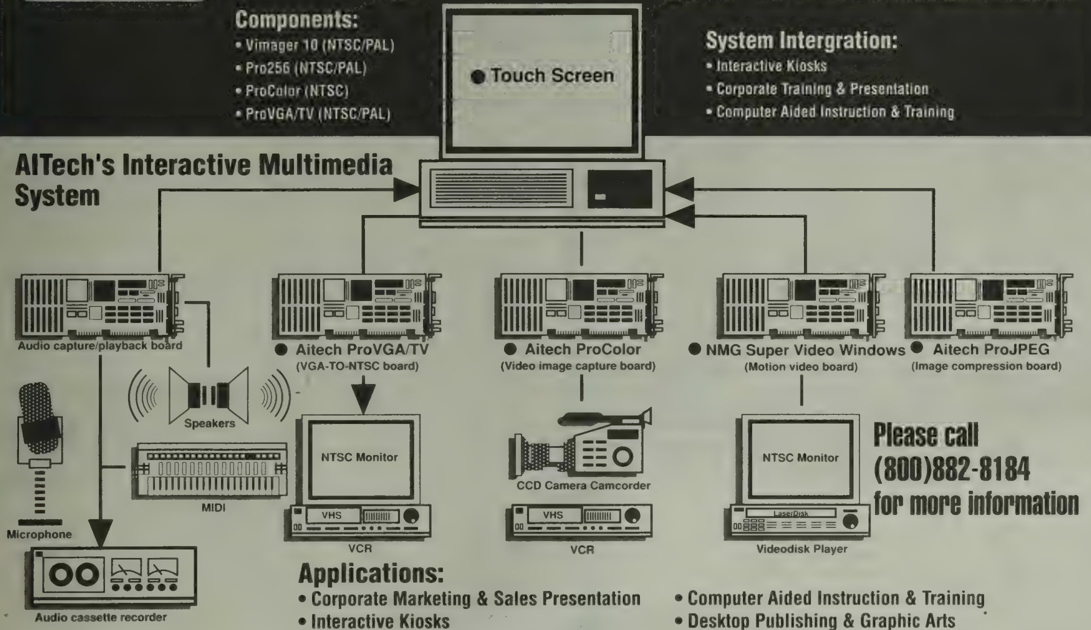
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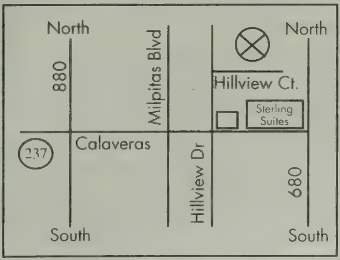
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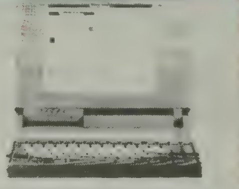

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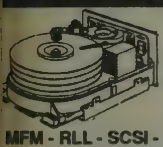

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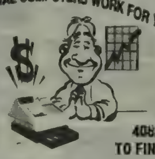

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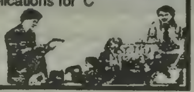

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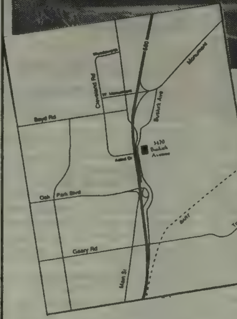

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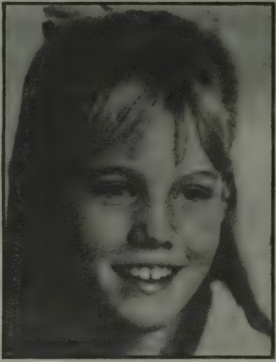

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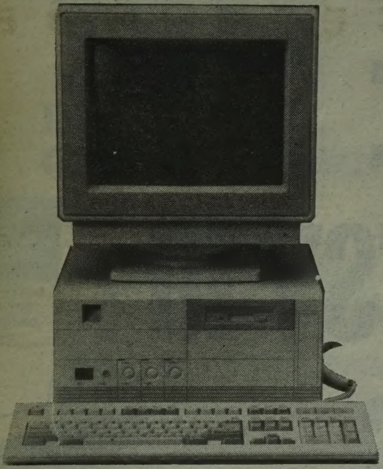

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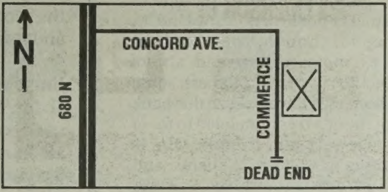

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The MicroTimes Writers' Soapbox Awards For 1991

continued from page 132

prototype does with it.

- **Quarterdeck's DESQview X**

Why is almost all the software I want still in beta? When this one ships, it could be a real spoiler in the PC GUI market. The demo room at Quarterdeck's recent developer's conference was impressive. PCs were running X Windows applications on minicomputers and Suns at the same time they were running DOS applications locally.

This also repackages DOS character applications inside the X protocol so that a minicomputer or workstation server can run them remotely. And the underlying DESQview can still run Windows in standard mode with Quarterdeck's memory management replacing Microsoft's enhanced mode. You lose some of Windows' interprocess communications capabilities, but Quarterdeck claims Windows under DESQview runs streaks around the Windows enhanced mode.

YEAR'S WORST

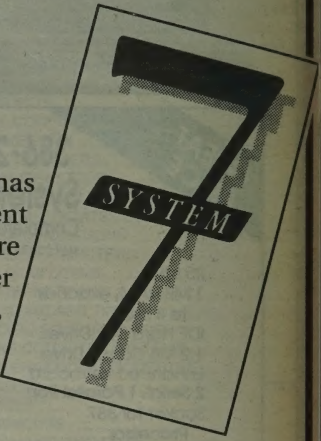
- **Greed**

Greed makes some vendors act crazy.

Take, for example, Que Corporation, perhaps the largest computer book publisher. Greed is the only apparent explanation for Que's release of a book titled *The Little Mac Book*. According to a release from Peachpit Press, Que is well aware that this is also the title of Peachpit's highly acclaimed book by author Robin Williams. To complete the deception, the Que author's name was omitted from the changeling's cover, and pricing was altered, from an originally announced $8.95, to an identical $12.95.

With its superior distribution, Que may indeed expect to profit from sales purloined of Peachpit, one of the smaller publishers of any kind. In doing so, though, the company places inglorious Greed above respect for its own customers, some of whom may never realize this book is not the one recommended to them by reviewers and friends. Que is insulting customers, Williams, and even its own author, Neil Salkind, whose work deserves respect and a chance to compete on its own merits.

Syst 7: Controversy In Six Colors



Not since we started publishing back in 1984 has there been such vocal and heartfelt disagreement among our writers about anything—which more or less mirrors anecdotal evidence from the user community. Depending on who you listen to, Apple's new operating system is either the pinnacle of technological achievement or the biggest nuisance to hit the Macintosh world since the Scores virus.

THUMBS UP:

Lenny Bailes includes System 7 on his list of the year's best—"...once the applications catch up to it."

Musicologist and Mac maven **Fred Lieberman** does likewise, calling it "Not everybody's cup of tea, but a significant evolution of the GUI, with still scads of unrealized potential."

Wayne Yacco adds: "Nobody's perfect. If you can stand the overhead, it makes life a lot more interesting."

Thumbs Down:

John Perry Barlow:
"I used to think of myself as a pretty fair Macintosh hand. But so far it has taken me better than a week to create a System 7 environment which doesn't crash more than about once an hour. By the time I've made all the phone calls to get upgrades of my software, we could be talking man-months. And I still don't know why I'm doing this."

Mike Markowitz:
"The triumph of marketing hype over software engineering, this bloated monstrosity provides tons of gimmicky features nobody needs (Bubble Help, Aliases, Publish/Subscribe, etc., etc.) at the cost of performance decrements nobody wants (slower file copying, "mandatory Multifinder"). On the positive side, 7.0 has finally organized the scandalous mess that the System Folder had become. Go back and do it over, Apple, and let's hope you get it right by v7.09..."

Jim Warren:
"I don't expect to get Apple's System 7, until they adopt less arrogant licensing requirements. I don't need software that prohibits use on clones, or outside North America, or in a rental; that fails to tolerate hundreds of older programs; fails to use the 680XX's invaluable protected mode—and comes from a company that promised a 32-bit upgrade path in its advertising but refuses to offer low-cost clean ROMs to replace their dirty old ROMs."

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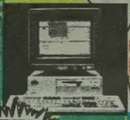

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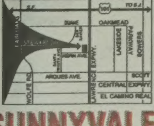

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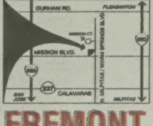

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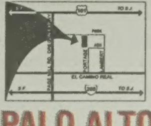

PALO ALTO
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VISA AND MASTERCARD ACCEPTED

We're Sorry.

What we really meant was:
QEMM-386 makes the most of every last 'K'—automatically. It finds more RAM between 640K and 1 megabyte than DOS 5 or any other memory manager. Lots more.

We under-sold Optimize.
Optimize does everything we said it does, but it manages your memory much more smoothly and quickly than you'd guess from this ad. It checks out virtually every possible combination of memory mapping—automatically.

We under-stated high memory gain.
QEMM-386 finds even more memory than we said—211K additional high memory in most cases. (We wanted to be conservative, but on most PCs, we got over 200K more room for TSRs and drivers between 640K and one megabyte.)

Oops!
When we said that all other memory managers require you to manually re-allocate memory between expanded and extended types, we should have said most memory managers require manual re-allocation, and none find more useable high memory.

Our new [illegible]MM whips DOS 5 into shape.

WOW!

Quarterdeck

We left out Squeeze.
Some TSRs require a lot more memory to start than they do to run. Squeeze increases available memory to accommodate their memory demand, then cuts it back to just what's necessary. The result? You can get more TSRs and utilities out of the way, and eliminate wasted memory.

Then there's VidRAM.
QEMM-386 can use memory set aside for graphics when you only need text. That's up to an additional 96K without rebooting!

Manifest is included, free.
Award-winning Quarterdeck Manifest is included with both QEMM-386 and QEMM 50/60. It's a $60 value that provides information you simply can't get any other way. And it makes memory simple to understand.

Save time; gain performance.
QEMM lets you use the TSRs you want and still leaves lots of room for network drivers, utilities and memory-hungry programs. You'll get fewer "out of memory" messages and get more work done smoothly and quickly.

Apparently this ad was misleading.

Trying not to over-promise, we were too cautious with our claims.

The truth is, QEMM-386 v.6 is better than we made it sound.

Not only does it typically find a lot more memory than we claimed, it also does its memory management job more quickly, smoothly and unobtrusively than we lead you to believe.

Stealth, our new RAM-gain feature, 'maps' ROM into other areas of memory—to provide you with the maximum available RAM between 640K and 1 megabyte. That's space QEMM then uses to load memory-hogging TSRs and drivers (like network software) out of the memory areas your big programs need.

How it works is not as important as the end result—more useable high memory—as much as 211K!

Our Optimize feature works better, too. From its new interface to the way it works with Stealth to calculate memory usage better, for maximum memory gain.

QEMM-386 helps your programs run faster by giving them more memory. And it works great with any DOS from 3.3 to 5. And Windows, too. It's an essential tool for anyone who wants to get the most productivity out of the hardware and software they're using today.

#1

QEMM is the #1 selling utility according to PC Magazine.

Results of running QEMM-386 v.6 with Stealth*

	DOS 3.3		DOS 4.0		DOS 5.0	
Model	DOS Program Size	Avail High Mem	DOS Program Size	Avail High Mem	DOS Program Size	Avail High Mem
IBM PS/2 80	581K	211K	572K	211K	620K	211K
Compaq 20e	581K	211K	572K	211K	620K	211K
ALR VEISA	582K	211K	573K	211K	620K	211K

This chart shows how big a DOS program can be and how much high memory is made available when you use our new QEMM-386. Sorry it isn't more colorful.

QEMM has won more recognition than all other memory managers combined.

Quarterdeck

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* Here we are, being cautious again: Because Stealth alters the memory mapping of your PC, how much high memory you'll gain depends on the 'BIOS' in your computer. We've tested Stealth on a wide range of PCs, from Compaqs to PS/2s; ALRs, Toshibas and many others. Typically, an additional 211K becomes available between 640K and 1 megabyte. Depending on your PC, your memory gain may vary.

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Sunnyvale (408) 733-1770
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Fremont (415) 770-3797

800-Software
Berkeley (800) 888-4880

PC by Root
San Mateo (800) 347-0343
San Francisco (415) 923-0343